



## OLUKLU MUKAVVA ÜRÜNLERİ Corrugated Cardboard Products





# **İŞİNİZİ BİR SONRAKİ SEVİYEYE TAŞIMAYA HAZIR MISINIZ?**

Are you ready to take your business to the next level?





# HAKKIMIZDA

## About US

Hizmet anlayışı ve kalitesiyle lider olmayı hedefleyen KOLİSPAK AMBALAJ, oluklu mukavva ambalaj sektöründe Zeki Ekinci'nin 40 yıllık sektör deneyim ve uzmanlığından ilham alarak 2014 yılında Ali Can Ekinci tarafından şahıs firması olarak kurulmuştur.

İstanbul'un en eski sanayi bölgesi olan Topkapı'da üretim yapan firmaların ambalaj ihtiyaçlarını karşılamak üzere 30 m<sup>2</sup> alanda pazarlama firması olarak kurulan Kolispak 2016 yılından beri limited şirket olarak faaliyetlerine devam etmektedir.

Sektöründe öncü kuruluşlardan biri olma yolunda emin adımlarla ilerleyen Kolispak artan müşteri portföyü ve talepleri karşılamak üzere 2018 yılında bugünkü merkez fabrikası olan Gaziosmanpaşa Elmabahçe sanayi bölgesinde 3.000 m<sup>2</sup> kapalı alanlı üretim merkezine geçiş yapmıştır.

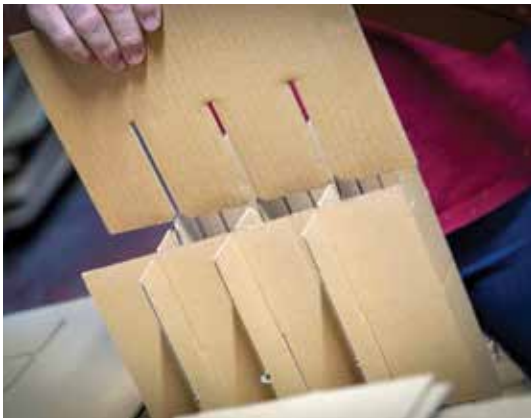
Sektöründe uzmanlaşmış kadrosu ile müşterilerimizin isteklerine uygun çözümler sunan Kolispak son teknoloji makine parkuru ile farklı ölçü ve teknik özelliklerde üretim yapabilen geniş bir ürün yelpazesine sahiptir. Firmamızın temel prensibi, tecrübeli tasarım ve imalat ekibiyle müşteri istekleri doğrultusunda istenilen baskı, kalite ve tasarım olanakları ile sorunsuz bir deneyim yaşamınızı sağlamaktır.

Founded in 2014 as a sole proprietorship by Ali Can Ekinci, KOLİSPAK AMBALAJ aims to be a leader in the corrugated cardboard packaging industry with a focus on service and quality, drawing inspiration from Zeki Ekinci's 40 years of industry experience and expertise.

Kolispak was established as a marketing company in a 30 m<sup>2</sup> area in Topkapı, which is Istanbul's oldest industrial zone, to meet the packaging needs of companies engaged in production. Since 2016, it has been operating as a limited company.

Kolispak, firmly advancing towards becoming one of the leading organizations in its sector, transitioned to its current main factory located in the Gaziosmanpaşa Elmabahçe industrial zone in 2018. This facility boasts 3,000 square meters of enclosed space to accommodate the growing customer portfolio and demands.

Kolispak, with its specialized team in the industry, offers tailored solutions to meet the demands of our customers. With its state-of-the-art machinery park, Kolispak has a wide range of products that can be manufactured in various sizes and technical specifications. Our company's fundamental principle is to ensure a seamless experience for you, the customer, in line with your requirements for desired printing, quality, and design options, thanks to our experienced design and manufacturing team.







# VİZYONUMUZ

## Our Vision

Kolisapak olarak, ambalaj sektörünün öncüsü olarak tanınmak ve uluslararası arenada lider bir marka olmak için ilerlemeyi hedefliyoruz. Vizyonumuz, sadece ambalajın sınırlarını zorlamakla kalmayıp aynı zamanda müşterilerimize özgün ve çevre dostu ambalaj çözümleri sunarak sektörümüzü şekillendirmektir. Ambalajın sadece ürünleri değil aynı zamanda markaları ve değerleri yansıttığına inanıyoruz ve bu inançla hareket ediyoruz.

As Kolisapak, we aim to be recognized as the pioneer of the packaging industry and move forward to become a leading brand in the international arena. Our vision is to shape our industry by not only pushing the boundaries of packaging but also providing our customers with unique and environmentally friendly packaging solutions. We believe that packaging reflects not only products but also brands and values and we act with this belief.

# MİSYONUMUZ

## Our Mission

Kolisapak olarak, müşterilerimizin başarısını desteklemek ve ürünlerini en iyi şekilde sunmak için buradayız. Misyonumuz, her müşterimizin benzersiz gereksinimlerini anlamak, yaratıcı tasarımlarla bu gereksinimleri karşılamak ve sürdürülebilirlik ilkelerine bağlı kalarak çevremizi korumaktır. Ambalaj, sadece bir ürünün korunması değil, aynı zamanda markanın kimliğinin ve değerlerinin bir yansımasıdır. Bu nedenle her ambalaj tasarımı ve üretimi sırasında estetik ve işlevsellik arasındaki mükemmel dengeyi sağlama taahhüdündeyiz.

Değerlerimiz arasında kalite, yenilikçilik, müşteri memnuniyeti ve sürdürülebilirlik bulunmaktadır. Her adımda bu değerlere sadık kalarak, müşterilerimize en iyi ambalaj çözümlerini sunmayı amaçlıyoruz.

As Kolisapak, we are here to support our customers' success and deliver their products in the best way possible. Our mission is to understand the unique requirements of each of our customers, to meet these requirements through creative designs and to protect our environment by adhering to the principles of sustainability. Packaging is not only the protection of a product, but also a reflection of a brand's identity and values. Therefore, we are committed to achieving the perfect balance between aesthetics and functionality during the design and production of each package.

Our values include quality, innovation, customer satisfaction and sustainability. By staying true to these values every step of the way, we aim to provide our customers with the best packaging solutions.



Kendisini geliştiren ve ülkemize katma değer sağlamayı görev edinmiş olan şirketimiz, deneyiminizi kusursuz bir hale getirmek için her daim hizmetinizdedir.

Our company, dedicated to continuous improvement and adding value to our country, is always at your service to make your experience seamless.



Türkiye'nin tüm bölgelerinde yer alan müşterilerine kaliteli ürün, hızlı imalat ve teslimat süreci sunan firmamız ayrıca Avrupa Kitası başta üzere dünyanın birçok bölgesine ihracat yapmaktadır. Gaziosmanpaşa'da bulunan fabrikamız, merkezi konumu sayesinde sevkiyat hızımıza ve hizmet odaklı yaklaşımımıza pozitif katkı sağlamaktadır.

Our company, which offers quality products, fast manufacturing and delivery process to its customers in all regions of Turkey, also exports to many regions of the world, especially the European Continent. Our factory in Gaziosmanpaşa contributes positively to our shipment speed and service-oriented approach thanks to its central location.

# İÇİNDEKİLER

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# ÜRETİM AŞAMALARI

## Production Steps



Kolispak, işletmelerin özel ihtiyaçlarına uygun ambalaj çözümleri sunarak sektörde öne çıkıyor. İşte bu özel ambalaj malzemelerinin neden tercih edildiğine dair daha fazla detay:

- Özelleştirilebilirlik
- Sağlık ve Çevre Dostluğu
- Koku ve Kirletme Sorunu Yok
- Zaman ve İş Gücü Tasarrufu
- Reklam ve Marka Tanıtımı
- Stok Maliyetlerini Azaltır
- Çevre Dostu Atık Yönetimi

Çeşitli kalite seviyeleri: Kolispak, farklı kalite seviyeleri üreterek her işletmenin bütçesine uygun ambalaj çözümleri sunar. Bu, küçük işletmelerden büyük endüstriyel tesislere kadar herkes için erişilebilir bir seçenek ortaya çıkarır.

Kolispak stands out in the industry by offering packaging solutions that meet the specific needs of businesses. Here are more details on why these special packaging materials are preferred:

- Customizability
- Health And Environmental Friendliness
- No Odor Or Contamination Issues
- Time And Labor Savings
- Advertising And Brand Promotion
- Reduces Inventory Costs
- Eco-Friendly

Various quality levels: Kolispak offers packaging solutions to suit the budget of every business by producing different quality levels. This creates an accessible option for everyone from small businesses to large industrial facilities.

## ÜRETİM AŞAMALARI

### Production Steps

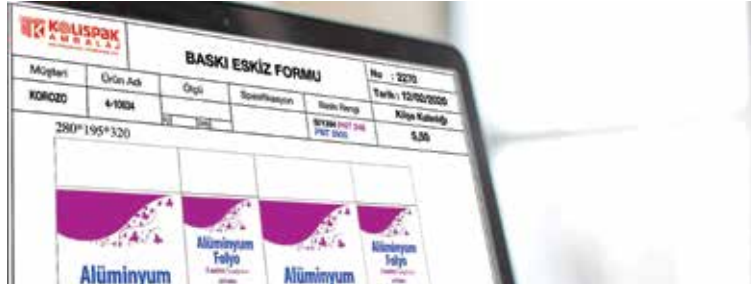
01



İlk adım, müşteriden gelen siparişi almak ve gereksinimleri doğru bir şekilde belirlemektir. Müşterinin isteğine göre ürünün türü, miktarı, boyutları ve diğer özel talepler dikkate alınır.

The first step is to receive the order from the customer and accurately determine the requirements. The type of product, quantity, dimensions and other special requirements are taken into account according to the customer's wishes.

02



Müşteri talepleri doğrultusunda örnek ürünler hazırlanır ve müşteriye sunulur. Bu numuneler, müşterinin geri bildirimini alarak talep ettiği gerekli değişiklikleri yapmak ve onayını almak için kullanılır.

Sample products are prepared in line with customer requests and presented to the customer. The samples are used to receive customer feedback and to make the necessary changes requested by the customer and to obtain their approval.

03



Onaylanmış numuneler ve sipariş bilgileri temel alınarak üretim planlaması yapılır. Üretim sürecinin tüm aşamaları, kaynak tahsisi ve zaman çizelgesi belirlenir.

Production planning is done based on approved samples and order information. All stages of the production process, resource allocation and timeline are determined.

## ÜRETİM AŞAMALARI

### Production Steps

04



Üretim süreci için gereken malzemeler ve hammadde, müşteri taleplerine ve ürün spesifikasyonlarına uygun olarak tedarik edilir. Bu, oluklu mukavva üretiminde kullanılan kağıt türlerini içerebilir.

The materials and raw materials required for the production process are sourced in accordance with customer demands and product specifications. This may include the types of paper used in the production of corrugated cardboard.

05



Tedarik edilen kağıt ve hammadde, yüksek teknolojiye sahip oluklu mukavva üretim makineleri kullanılarak levhalara dönüştürülür.

The supplied paper and raw materials are converted into sheets using high-tech corrugated cardboard production machines.

06



Üretilen oluklu mukavva levhalar, koli üretim makinalarına taşınır. Bu makinalar, levhaları özel tasarımlara ve boyutlara sahip kolilere dönüştürmek için kullanılır.

The produced corrugated cardboard sheets are transported to carton production machines. These machines are used to transform the sheets into boxes with customized designs and dimensions.

## ÜRETİM AŞAMALARI

### Production Steps

07



Hazırlanan koliler ve kutular, düzenli bir şekilde paletlere dizilir. Bu, ürünlerin depolama ve nakliye sırasında düzenli bir şekilde taşınabilmesini sağlar.

Prepared parcels and boxes are arranged neatly on pallets. This ensures that the products can be transported in an orderly manner during storage and transportation.

08



Ürünler, paketleme işlemine tabi tutulur. Bu aşamada, ürünler paletlere dizilir ve gerekli etiketler eklenir. Bu etiketler, ürünün tanımlanmasına ve yönlendirilmesine yardımcı olur.

Products are subjected to the packaging process. At this stage, the products are arranged on pallets and the necessary labels are added. These labels help to identify and orient the product.

09



Paketlenen ürünler son bir kontrol sürecinden geçer. Bu, ürünlerin kalitesini ve doğruluğunu sağlamak için yapılır. Herhangi bir hata veya eksiklik tespit edilirse, düzeltilir.

Packaged products go through a final inspection process. This is done to ensure the quality and accuracy of the products. If any errors or omissions are detected, they are corrected.

## ÜRETİM AŞAMALARI

### Production Steps



10

Ürünler, sevkiyata hazır hale getirilir. Paletler düzenlenir, ürünlerin miktarları doğrulanır ve taşıma için hazır hale gelirler.

Products are prepared for shipment. Pallets are organized, quantities are verified and they are ready for transportation.



11

Son adım, ürünlerin müşterilere ulaştırılmasıdır. Nakliye araçları kullanılarak ürünler, müşterinin belirttiği teslimat adresine gönderilir.

The final step is the delivery of products to customers. Using transportation vehicles, the products are sent to the delivery address specified by the customer.



# HİZMET VERDİĞİMİZ SEKTÖRLER

Sectors We Provide Service



## Gıda ve İçecek

Food & Beverage



## Kozmetik ve Kişisel Bakım

Cosmetics & Personal Care



## Yaş ve Kuru Meyve-Sebze

Fruit and Vegetable, both  
Fresh and Dried



## İlaç

Pharmaceuticals



## Et Tavuk ve Balık

Meat, Poultry and Fish



## Tekstil

Textiles



## Otomotiv ve Yedek Parça

Automotive & Spare Parts



## Ambalaj ve Matbaa

Packaging & Printing



## İnşaat Malzemeleri

Construction Materials



## Ev ve Mutfak Gereçleri

Home & Kitchenware



## Elektrik ve Elektronik

Electricity & Electronics



## Ağır Sanayi

Heavy Industry



## Kırtasiye ve Oyuncak

Stationery & Toys



## Hazır Gıda

Fast Food

## OLUKLU MUKAVVA ÜRETİMİNDE KULLANILAN KAĞITLAR

### Paper Used In Corrugated Cardboard Production

#### Saman | Fluting



Atık ve geri dönüşüm kağıtlardan elde edilir. Genellikle mukavvaların oluk kısmında ve ara katlarında kullanılır. 80-120-135-175 gram yaygın gramajlardır. Açık gri ve kirli beyaz renktedir. Görünümü pürüzlü ve mat gridir. Mukavvanın dış kısımlarında ve baskı yüzeyinde kullanılmaz. Diğer kağıtlara göre katma değeri düşüktür.

Obtained from waste and recycled papers. Typically used in the corrugated cardboard's flute and inner layers. Commonly available in gram weights of 80, 120, 135, and 175 grams. It comes in light grey and off-white colors. It has a rough and matte finish. Not used on the outer layers or printing surfaces of the cardboard. Has a lower added value compared to other papers.

#### Güçlendirilmiş Saman | Chemical Fluting



Sert ağaçlardan, kimyasal ve mekanik yollarla üretilen bir kağıt türüdür. Oluklu mukavvanın ondüle kısmında kullanılır. Ezilme ve darbeye karşı çok dayanıklı bir kağıttır.

Genellikle meyve kutularında ve dondurulmuş gıdaların taşınması için üretilen ambalajlarda kullanılmaktadır. Yaygın gramajları 110 ve 140 arasında değişmektedir.

It is a type of paper produced from hard woods by chemical and mechanical means. It is used in corrugated corrugated cardboard. It is a very resistant paper against crushing and impact.

It is generally used in fruit boxes and packaging produced for the transport of frozen foods. Common weights vary between 110 and 140.

#### Testliner | Testliner



Geri dönüşüm kağıtlardan elde edilir. Yüzeyi baskıya elverişlidir. flutinge göre daha dirençli ve pürüzsüzdür. Kraftliner ve mod kraftlinere göre daha ekonomik bir ürün olduğundan yüzey kullanımında daha yaygın kullanılmaktadır. Kimyasal katkı olarak mukavemeti artırılabilir. 90, 110 ve 140 gr yaygın kullanılan gramajlardır. Yüksek mukavemet gerektiren ambalajlarda tercih edilmez.

It is a type of paper produced from hardwood through chemical and mechanical processes. Used in the corrugated part of corrugated cardboard. It is highly durable, providing resistance against crushing and impacts.

It is commonly used in packaging for fruit boxes and transporting frozen foods. Common grammes range between 110 and 140.

## İmitasyon Kraftliner | Imitation Kraftliner



Testliner kağıdın kimyasalı arttırılarak elde edilir. Dayanıklılığa sahiptir. Avrupa'da Testliner 1 olarak adlandırılır. Mukavvanın en dış ve en iç yüzeylerinde kullanılır. Kraft kağıdın üretiminin sınırlı olması ve maliyetinin yüksek olmasından kaynaklı kullanımı son derece yaygındır. 110 gr ve 140gr en çok tercih edilen gramaj olmakla beraber 175 ve 200 gr olarak da kullanımı vardır.

It is obtained by increasing the chemical content of Testliner paper, making it durable. It is referred to as Testliner 1 in Europe. It is used on the outermost and innermost surfaces of corrugated cardboard. Its usage is highly common due to the limited production and high cost of Kraft paper. The most preferred grammages are 110 g and 140 g, but it is also used in 175 g and 200 g variations.

## Beyaz ve Kahverengi Kraftliner | White & Brown Kraftliner



Ladin, çam, köknar gibi uzun elyafa sahip yumuşak ağaçlardan üretilen yüksek dayanıklılığa sahip mukavemetli bir kağıttır. Kraft kağıtlar orman bakımından zengin olan ülkelerde üretilir. Yüksek elyafa sahip orijinal kraft kağıtlar su geçirmezler. Özellikle ihracat yapan müşteriler ürünlerin uzun süren yolculuğunda kolilerin dayanıklı ve sağlam kalması için tercih ederler. Parlak oluşu ve pürüzsüz olmasından dolayı kolay baskı uygulanır.

It is a highly durable and strong paper made from softwoods with long fibers such as spruce, pine, and fir. Original kraft papers are produced in countries with rich forests. High-fiber content Kraft papers are waterproof. They are preferred by customers, especially exporters, for ensuring box durability during long journeys. Kraftliner's glossy and smooth surface allows for easy printing.

## Beyaz Testliner | White Testliner



Testliner kağıdın bir tarafı beyaz olan halidir. Dış yüzey kağıdı olarak tercih edilir.

Genellikle dış görünüşünün pürüzsüz ve beyaz olmasından dolayı tercih edilir. Kahverengi kağıtlara göre flexo baskıyı net, canlı ve daha parlak gösterir. Bu sebeple özellikle baskı sonucuna önem veren birçok müşteri tarafından tercih edilir. Firmamız stoklarında gramajı 120 ve 140 gram olarak bulunmaktadır. Dünyada 120-140-175 gibi gramajlar yaygın olarak kullanılır.

It is a variant of Testliner paper with one side being white. It is preferred as the outer surface paper.

It is often chosen for its smooth and white appearance. Compared to brown papers, it enhances flexo printing, making it sharper, livelier, and more vibrant. As a result, it is preferred by many customers, especially those who prioritize printing quality. In our company's stock, it is available in grammages of 120 and 140 grams. Globally, grammages like 120, 140, and 175 are commonly used.



## OFSET BASKIDA KULLANILAN KAĞITLAR

### Papers Used In Offset Printing

#### Kuşe Kağıt | Coated Paper



Broşür baskısında en çok tercih edilen kağıt türü olan kuşe kağıdın yüzeyi işlenmiş mat ve parlak türleri bulunur. Yüzeyi tam beyaz olan kuşe kağıtlar ise renkli resimlerin baskısında en iyi sonucu verir. 80, 90, 115, 135, 170, 200, 250, 300 ve 350 gr./m<sup>2</sup>'lik gramajlarda üretilir. Fiyatı pahalı olduğu için koli ve kutu üretiminde nadir kullanılır.

Coated paper is one of the most preferred types of paper for brochure printing. It comes in various surface finishes, including matte and glossy. Fully white coated papers are best for printing colorful images. It is produced in grammages of 80, 90, 115, 135, 170, 200, 250, 300, and 350gr/m<sup>2</sup>. Due to its higher cost, it is rarely used in box and carton production.

#### Bristol | Bristol



Tek tarafı kuşelidir. Parlaklığı ve pürüzsüzlüğü çok yüksek olup, yüzey düzgünlüğü sayesinde yüksek performanslı baskılar sağlar. Gıda, sağlık, kozmetik ve kartpostal sektörlerinde sıklıkla kullanılmaktadır. Ofset baskı, flexo baskı ve roto gravür baskıya uygundur. Krome kartona göre daha toktur. Örnek olarak aynı gramajdaki krome karton ve bristol kartonu karşılaştırdığımızda, bristolün daha tok olduğunu görebilirsiniz. Yaygın olarak 180 ile 450 gr. arasında piyasada görülebilir.

It is single-sided coated paper. Bristol paper has a very high gloss and smoothness, providing excellent performance in printing. It is commonly used in the food, health, cosmetic, and postcard industries. It is suitable for sheet offset printing, flexo printing, and rotogravure printing. Bristol paper is denser compared to chrome cardboard. For example, when comparing the same grammage of chrome paper and bristol paper, you can see that bristol is denser. It is commonly available in the market in grammages ranging from 180 to 450 grams.

#### Krome Karton | Duplex Board (GD2)



Bir yüzeyi düzgünleştirilmiş ve beyazlatılmış, diğer yüzeyi mat olan bu kağıt türü ambalaj sektöründe kullanılır. Koli ve kutu üretiminde en sık kullanılan kağıt türüdür. 180 ile 450 gr. arasında yaygın olarak kullanılır.

This type of paper has one side smoothed and whitened, while the other side is matte. It is used in the packaging sector and is the most commonly used type of paper in box and carton production. It is used in grammages ranging from 180 to 450 grams.

# OLUKLU MUKAVVA | CORRUGATED CARDBOARD

## Tek Dalga Mukavvalar | Single-Wall Corrugated Cardboard

### E DALGA | E Flute



Dalga Yüksekliği (mm) Flute Height (mm)	1,2- 1,8
Metredeki Oluk Sayısı Number Of Flutes Per Meter	270 - 310

Mikro oluklu mukavva olarak da isimlendirilen E dalgada metredeki oluk sayısı çok fazladır. Olukların mukavva içinde çok sık geçmesi baskıda diğer tüm dalga çeşitlerine göre avantaj sağlamaktadır.

Also known as micro-flute corrugated cardboard, E flute has a high number of flutes per meter. The frequent occurrence of flutes within the cardboard provides an advantage in printing compared to other wall types. It is also laminated with offset printed papers and presented to the end consumer.

### B DALGA | B Flute



Dalga Yüksekliği (mm) Flute Height (mm)	2,2 - 2,9
Metredeki Oluk Sayısı Number Of Flutes Per Meter	150 - 180

Dalgaların sık ve et kalınlığının düşük olması sebebiyle dayanıklı bir mukavva çeşididir. Neredeyse her sektöre hitap eden bir ürün olmakla beraber özellikle yağ tenekeleri, litrelik içecekler, mobilya ürünleri gibi kendi kendisini de taşıyabilen ürünlerin ambalajlanmasında yaygın olarak tercih edilir. Sert yapısıyla baskıda iyi sonuç verir.

It is a durable type of corrugated cardboard due to its closely spaced flutes and low board thickness. It is a versatile product that caters to almost every industry and it is commonly preferred for packaging products that can carry their own weight, such as oil drums, liter-sized beverages, and furniture items. Its sturdy structure delivers good printing results.

## C DALGA | C Flute



Dalga Yüksekliği (mm) Flute Height (mm)	3,5 – 3,70
Metredeki Oluk Sayısı Number Of Flutes Per Meter	120 - 140

Havaleli fakat çok ağır olmayan ürünlerin ambalajlanmasında kullanılır. Orta ve yüksek gramajlı kağıtlar tercih edildiğinde istif yapmaya uygunluk sağlar. İmalatı seri ve yaygın olduğundan maliyette avantaj sağlamaktadır. Koli ve ürün aralarında seperatör olarak da kullanılmaktadır.

It is used for packaging products that are bulky but not very heavy. When medium to high grammage papers are preferred, it allows for stacking. Due to its efficient and widespread manufacturing process, it provides cost advantages. It is also used as a separator between boxes and products.

## Çift Dalga Mukavvalar | Double-Wall Corrugated Cardboard

### BC Dalga | BC Flute



Dalga Yüksekliği (mm) Flute Height (mm)	6,5 – 7,0
Metredeki Oluk Sayısı Number Of Flutes Per Meter	120 - 140

BC Doppel mukavva, B ve C dalga mukavvaların birleşmesiyle oluşur. Et kalınlığı 6,5 mm'dir. Sağlam yapısı, dayanıklılığı ve kalınlığıyla dikkat çeken BC Doppel mukavva, nakliye ve dayanıklılık gerektiren ürünlerin ambalajlanmasında kullanılır. Müşteriye fiyat/performans açısından en iyi performansı sağlar. Genel olarak tekstil, gıda, bakliyat, metal, demir ve elektronik eşyalarda kullanılır.

BC Doppel cardboard is formed by the combination of B and C wave cardboards. It has a thickness of 6.5 mm. BC Doppel cardboard, which stands out with its sturdy structure, durability, and thickness, is used in the packaging of products that require transportation and durability. It provides the best performance in terms of price/performance for the customer. It is generally used in textiles, food, groceries, metal, iron, and electronic products.

## EB Dalga | EB Flute



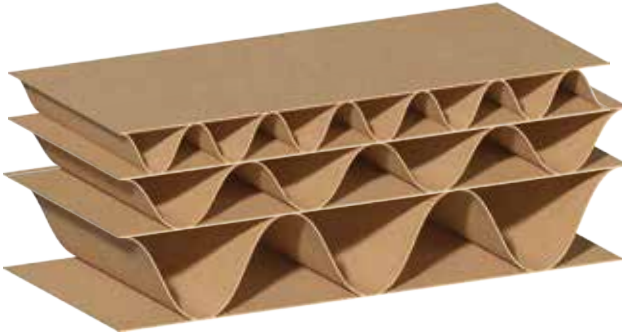
Dalga Yüksekliği (mm) Flute Height (mm)	4,2 – 4,80
Metredeki Oluk Sayısı Number Of Flutes Per Meter	150 - 180

Oluklu hattında bir adet mikro (e) ve bir adet ince dalga (b) çalışmasıyla meydana gelen çift dalga mukavva çeşididir. Dış yüzeyinde E dalganın olması baskı kalitesinde maksimum verim sağlar. Sert yapısıyla ve keskin hatlarıyla dikkat çeker. Mikro Doppel olarak da isimlendirilen bu mukavva çeşidinin et kalınlığı 4,2 mm civarındadır. BC dalgaya göre kesimli ürünlerde kolay katlanır ve kurulur olması avantaj sağlamaktadır.

It is a type of double-wall corrugated cardboard created by combining one micro flute (E) and one fine flute (B) in the fluting process. The presence of E flute on the outer surface provides maximum efficiency in print quality. It stands out with its rigid structure and sharp edges. This type of corrugated board, also known as Micro Doppel, has a board thickness of around 4mm. It offers the advantage of easy folding and assembly for die-cut products compared to BC flute.

## Tripleks Dalga Mukavvalar | Triple-Wall Corrugated Cardboard

### BCA Dalga | BCA Flute



Dalga Yüksekliği (mm) Flute Height (mm)	10 - 11
Metredeki Oluk Sayısı Number Of Flutes Per Meter	105 – 125

A B ve C dalga mukavvanın birleşmesiyle meydana gelen tripleks mukavvalar ağır sanayi ürünleri ve hassas malzemelerin ambalajlanmasında kullanılır. Geri dönüşüme uygun olması ve maliyet avantajı ile tahta sandıkların yerine iyi bir alternatif olarak ön plana çıkmaktadır. Ağır sanayi, otomotiv, makine, elektronik gibi sektörler başta olmak üzere tüm ihracat yapan firmalar tercih edebilmektedir.

Triple wall cardboards, which are formed by the combination of A, B and C flute corrugated cardboard, are used in the packaging of heavy industrial products and sensitive materials. Being recyclable and cost-effective, they are considered a good alternative to wooden crates. They are a preferred choice for export-oriented companies, especially in sectors such as heavy industry, automotive, machinery, and electronics.

# Standart Taşıma Kolisi

## Standard Shipping Box

Üretimde ve kullanımda yüksek verimlilik, düşük maliyet sağlayan taşıma kolileri genel olarak tek parçadan üretilip zımba teli veya tutkal ile birleştirilir. Kapakları ise koli bandı yardımı ile kapatılır. Kapaklarda yüksek mukavemet talep eden müşteriler tam kapaklı olarak da bu ürünleri tercih edebilir. Firmamız ambalajlanacak ürün hakkında detaylı bilgileri müşteriden edindikten sonra uygun ebat, kalite ve maliyet ile optimum ürünü müşteriye sunar.

These transportation boxes are generally manufactured from a single piece and are joined with staples, wire, or glue. The lids are sealed using box tape. Customers who demand high strength in caps can opt for fully covered lids. Our company gathers detailed information from customers about the products to be packaged and then offers the customer the optimal product in terms of size, quality, and cost.



# SEPERATÖRLÜ KOLİ

## Box With Seperator

Koli içerisinde taşınan ürünlerin hassas, kırılabilir, bozulabilir olması durumunda seperatörlü kolilere ihtiyaç duyulur. Seperatörlü koliler ambalajlanacak ürünün birbirlerine değmesini engeller, ürünlere kolay ulaşım sağlar, ürünün koli içerisinde sabit durmasını sağlar, yandan ve üstten alacağı darbelerle karşı güvenlik sağlar ve kolinin mukavemetini artırır. Özellikle cam ürünler, meyve sebzeler, teknolojik ve hassas ürünlerde seperatörlü koli kullanımı yaygındır.

Partitioned boxes are needed when the products being transported within the box are delicate, fragile, or prone to damage. Partitioned boxes prevent products from touching each other, facilitate easy access to the products, keep the product stable within the box, provide protection against impacts from the sides and top, and enhance the strength of the box. Especially in glass products, fruits and vegetables, technological and sensitive products, the use of partitioned box is common.



# ET VE TAVUK KUTULAR

## Meat and Poultry Boxes

Tavuk, balık ve et gibi hayvansal gıdaların depolanması, taşınması ve sergilenmesi amacıyla üretilen ambalaj çeşididir. Kapaklı kasa, kapaksız kasa ve standart koli şeklinde üretimi tercih edilebilir. Et ve tavuk kutularının üretiminde dikkat edilmesi gereken konu gıdaya teması uygun kağıtların kullanılması, terleme ve soğuk zincire uygun malzemelerin üretilecek kutularda tercih edilmesidir.

These are packaging options designed for storing, transporting, and displaying animal-based food products such as poultry, fish, and meat. They are available in various styles, including hinged crate, lidless crate, and standard cardboard boxes. When manufacturing these boxes, it's crucial to use paper materials that are safe for direct food contact. Additionally, materials that can withstand condensation and cold chain requirements should be preferred.



# YAŞ / KURU MEYVE SEBZE KUTUSU

## Fresh / Dried Fruit & Vegetable Boxes

Taze ve kuru meyve sebzelerin ambalajlanması, üreticiden tüketiciye giden uzun ve meşakkatli yolculuğunda güvenle taşınması, dağıtımının yapılması ve son tüketiciye rafta sergilenmesi amacıyla meyve kasaları, meyve kutuları, sebze kasaları üretimi yapılmaktadır. Kolispak meyve üreticilerinin talepleri doğrultusunda elle kurmalı veya makine kurulumuna uygun meyve ve sebze kutuları üretebilmektedir. Meyve ve sebze kutusu üretiminde ambalajlanacak ürünlerin kuru, yaş veya donmuş ayrımı yapılarak en uygun kağıt tipi seçilmelidir. Meyve kasalarının mukavva kalınlığı ve köşe takozları istif ve taşıma şartlarına uygun olarak üretilmelidir.

Boxes for packaging fresh and dried fruits and vegetables are produced to ensure the safe transport, distribution, and display of these products on their long and challenging journey from producers to consumers. Kolispak can produce fruit crates, fruit boxes, and vegetable crates suitable for both manual and machine assembly, tailored to the specific requirements of fruit producers. When producing boxes for fresh fruits and vegetables, it's essential to select the most suitable paper type, considering whether the products are dry, fresh, or frozen. The cardboard thickness of the cardboard for fruit crates and the design of corner protectors should be optimized to meet stacking and transportation requirements.





# PİZZA KUTUSU

## Pizza Boxes

Ülkemizde ve dünyada çok sevilen hazır gıda ürünlerinden biri olan pizzanın taşınması ve servisi için kullanılan pizza kutuları müşterilerimizin talepleri doğrultusunda çeşitli ölçü ve zengin baskı çeşitleri ile Kolispak tarafından üretilmektedir. Ürettiğimiz pizza kutuları, pizza severlerle buluşuncaya kadar ürünün taze kalmasına ve lezzetinin korunmasında büyük önem arz etmektedir.

Kolispak Ambalaj, müşterinin talep ettiği tasarımı ve kurumsal renklerini kullanarak baskılı pizza kutusu üretebilmektedir. Ölçü olarak, 20 cm küçük boy pizza kutusu, 30 cm orta boy pizza kutusu, 40 cm büyük boy pizza kutusu ve 45 cm mega boy pizza kutusu tercih edilmektedir. Müşteri istek ve beklentilerini karşılayacak mukavva kalınlığı ve kağıt gramajı ve kalitesi tercih edilebilmektedir. Kare pizza kutusu başta olmak üzere yuvarlak pizza kutusu, köşeli pizza kutusu, kilitli pizza kutusu, tutmalı pizza kutusu çeşitlerinin üretimi ile müşterilerimize hizmet vermekteyiz.

Pizza boxes used for transporting and serving pizza, one of the beloved fast-food items in Türkiye and worldwide, are manufactured by Kolispak in various sizes and with a wide range of printing options, according to our customers' preferences. The pizza boxes we produce are of great importance in keeping the product fresh and preserving its flavor until it meets with pizza lovers.

Kolispak Ambalaj can produce printed pizza boxes using the customer's requested design and corporate colors. Available sizes include 20cm small pizza boxes, 30cm medium pizza boxes, 40cm large pizza boxes, and 45cm mega pizza boxes. Customers can choose the cardboard thickness and paper weight and quality that meet their expectations. We offer various types of pizza boxes, including square pizza boxes, round pizza boxes, rectangular pizza boxes, lockable pizza boxes, and handled pizza boxes, to cater to our customers' needs and preferences.



# HIZLI YEMEK AMBALAJLARI

## Fast Food Packaging

Hamburger, lahmacun, pide, kebab gibi yeme içme sektöründe hizmet veren firmaların ürettiği ürünlerin sunulması, paketlenmesi ve taşınması için oluklu mukavva kutulara ihtiyaç duyulur. Kullanılan kutunun kalitesi, ürünlerin taşıma esnasında sıcaklığının muhafaza edilmesi ve kutunun yüksek buhara maruz kaldığında mukavemetini koruması için çok önemlidir. Tasarım ekibimizle birlikte taleplerinize uygun özelliğe sahip oluklu mukavva kutular tasarlayabilirsiniz.

Companies in the food and beverage sector, serving items like hamburgers, lahmacun, pita, and kebabs, require corrugated cardboard boxes for serving, packaging, and transporting their products. The quality of the used box is crucial to preserving the temperature of the products during transportation and maintaining the box's strength when exposed to high humidity. Together with our design team, you can design corrugated cardboard boxes with features that meet your specific requirements.



# TAVA KUTULAR

## Tray Boxes

Tava kutuları alt-üst takım olarak veya üstü açık olarak tercih edilebilir. Kendi kendini taşıma özelliği de olan ürünlerde maliyet düşürücü bir yöntem olarak tava kutular tercih edilebilir.

Tray boxes can be preferred as a top-bottom set or with an open top. In self-supporting products, tray boxes can be a cost-effective option.

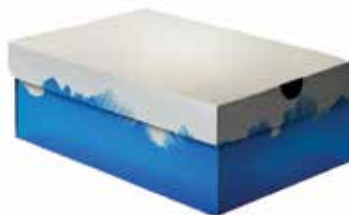


# AYAKKABI KUTULARI

## Shoe Boxes

Karton ayakkabı kutuları ürünlerde koruma, depolama ve ürünün sağlam bir şekilde taşınmasını sağlar. Ambalaja uygulanan çeşitli tasarım baskı özellikleriyle perakendede ürünü görünür kılar. Kutu ve kapakları ayrı, kendinden kapaklı, çekçekli gibi kutu tasarımlarına göre üretilir. Ofset baskılı, flekso baskılı, taslamalı üretimleri firmamız tarafından sağlanmaktadır.

Cardboard shoe boxes provide protection, storage and safe transportation of the product. It makes the product visible in retail with various design printing features applied to the packaging. Boxes can be produced according to box designs such as separate box and lid, self-closing, pull-out, etc. Offset printed, flexo printed, and die-cut productions are provided by our company.



# ÖZEL KESİMLİ KUTULAR

## Custom Die-Cut Boxes

Ambalajlanacak ürüne özel olarak üretilen özel kesimli kutular, ambalajladığı ürüne katma değer sağlar ve pazarlanmasını kolaylaştırır. Hediyeelik eşya, çikolata, şekerleme, bilgisayar bileşenleri, elektronik, telekomünikasyon sektörlerinde yaygın olarak tercih edilir. Birden fazla bileşeni olan ürünlerde seperatörlü olarak da tercih edilir.

Custom die-cut boxes, specifically tailored to the packaged product, add value to the packaged item and facilitate its marketing. They are widely preferred in the giftware, chocolate, confectionery, computer components, electronics, and telecommunications sectors. They are also used as separators for products with multiple components.



# E-TİCARET KUTULARI

## E-Commerce Boxes

Türkiye ve dünyada çok hızlı büyüyen e-ticaret sektörüne özel olarak tasarladığımız kargo kutuları müşterilerimizin ürünlerini son kullanıcıya sorunsuz bir teslimat deneyimi yaşamasını sağlamaktadır. E-ticaret kutularında kullanılan mukavva kalınlığı ve kağıt kalitesi, taşıma esnasında oluşabilecek tüm olumsuz dış etkenlere karşı ürünlerinizi muhafaza etmektedir. Tasarım ekibimizin etkileyici grafik çalışması ile de markanıza katma değer yaratacak karton ambalajlar üretmekteyiz.

Designed specifically for the rapidly growing e-commerce sector in Türkiye and worldwide, our shipping boxes ensure that our customers' products are delivered to end-users seamlessly. The cardboard thickness and paper quality used in e-commerce boxes protect your products against all potential external factors during transportation. We also produce cardboard packaging that adds value to your brand with the impressive graphics work of our design team.



# ARŞİV KOLİSİ

## Archive Box

Özellikle kamu kurumlarında, bankalarda, büyük holdinglerde evrakların saklanması için tercih edilen kutu şeklindedir. Önemli belgelerin zarar görmemesi ve özellikle kaybolmamasına karşı kullanılır.

El tutamaç delikleri sayesinde taşımada kolaylık sağlar.

This box shape is preferred, especially for storing documents in public institutions, banks, and large holdings. It is used to prevent important documents from being damaged or lost.

The handle holes make it easy to carry.



# ASKILI KOLİLER

## Wardrobe Boxes

Özellikle tekstil sektöründe kıyafetlerin kırışmasının engellenmesi, uzun ve zor nakliye şartlarında ürün özelliğinin korunması amacıyla askılı koliler üretilmektedir. Rotary bıçaklar yardımıyla ürettiğimiz kolilere askı aparatlarının takılacağı özel kesimler yapılır. Anlaşmalı tedarikçilerden alım yaptığımız metal askılarla birlikte siz değerli müşterilerimize ürettiğimiz askılı kolileri sunmaktayız.

Wardrobe boxes are especially produced in the textile industry to prevent clothes from wrinkling and to preserve product quality during long and challenging transportation conditions. Special cuts for hanging attachments are made on the boxes using rotary blades. We provide Wardrobe boxes to our valued customers along with hanging rails from our contracted suppliers.





# AĞIR GÖREV KOLİLERİ

## Heavy Duty Boxes

Genellikle makine parçası, otomotiv sanayisi, robot ve elektronik, metal gibi ağır ve hassas malzemelerin taşınmasında ve korunmasında kullanılır. Kolilerin boy ve en kısmı standart palet ölçülerine denk gelecek şekilde ayarlanır. Ürünün taşınması paletle birlikte yapılmaktadır. Geri dönüştürülebilir olması ve maliyet avantajı ile ahşap sandıkların yerine tercih edilmektedir.

These boxes are commonly used for the transportation and protection of heavy and delicate materials, such as machine parts, automotive industry components, robots, electronics, and metals. The dimensions of the boxes' length and width are adjusted to match standard pallet sizes. The products are transported along with the pallet. They are preferred as an alternative to wooden crates due to their recyclability and cost advantages.



# TASLAMALI KUTU

## Rigid Boxes

5 mm kalınlıđa kadar ürettiđimiz taslamalı kutular ürünlerin pazarlanmasında şık bir ambalaj çeşidi olarak kullanılmaktadır. Kartonların dış ve iç yüzeylerine fantezi kağıt, kumaş, kadife gibi kaplamalar sıvanarak üretimi yapılmaktadır. Kozmetik, saat, deri, çikolata, gözlük, elektronik, hediyeelik ürünler başta olmak üzere lüks ürünlerin ambalajlanmasında kullanılır. Pazarlama değeri oldukça yüksek olan taslamalı kutular firmamız bünyesinde çekmeceli ve mıknatıslı olarak da üretilmektedir.

Our 5mm-thick Rigit boxes are used as a stylish packaging option for product marketing. They are made by applying coverings such as fancy paper, fabric, and velvet to the outer and inner surfaces of cardboard. They are used in the packaging of luxury products, such as cosmetics, watches, leather, chocolate, glasses, electronics, and gift items. Our rigid boxes, which have a very high marketing value, are also produced in drawer and magnetic styles.



# KARTON STANT

## Cardboard Stand

Süpermarketler, fuarlar, sergiler, promosyonlar ve etkinliklerde, ürünlerinizi pazarlamanın ve doğrudan satış yapmanın en etkili yollarından biri, markanızı da ön plana çıkarabileceğiniz karton standlardır. Size özel tasarlanan karton standlarınızı, ayaklı, masaüstü, raflı veya havuzlu olarak tercih edebilirsiniz.

Cardboard stands are one of the most effective ways to promote your products and make direct sales in supermarkets, trade shows, exhibitions, promotions, and events. You can choose your custom-designed cardboard stands in standing, desktop, shelf, or pool styles.



## Ara Karton | Cardboard Edge Protectors

Kullanıldığı ambalaj malzemesinin özelliğine göre ara kartonlar çift oluklu veya tek oluklu tercih edilebilir. Yatay veya dikey olarak koli içerisine yerleştirilen ara kartonlar (seperatörler) ayırıcı görevi görürler. Palette istif halindeki ürünlerin dengeli olması için de karton seperatörler tercih edilir. Tablo, çerçeve, ayna, tekstil gibi ürünlerin arkasında destek ve düzenleyici olarak konular. Koli üzerinde oluşan boşlukları doldurmak için kademe görevi görür.

Cardboard edge protectors are used to minimize damage to products during storage and transportation in challenging conditions when they might receive external impacts. We use gray cardboard from local manufacturers for the production of cardboard edge protectors. The outer surfaces can be customized with paper types such as kraftliner, testliner, imitation kraftliner, based on customer preferences. Our machinery park can produce corner protectors with wing dimensions ranging from 30mm to 100mm and corner protector board thickness ranging from 2mm to 10mm.



## KARTON KÖŞEBENT | Cardboard Edge Protectors

Ürünlerin depolanması ve zorlu şartlarda taşınması sırasında dışarıdan alacağı darbelerdeki zararı en aza indirmek için karton köşebentler kullanılır. Karton köşebentlerin üretiminde yerli üreticilerden tedarik ettiğimiz gri kartonlar kullanılırken, dış yüzeylerinde müşteri talepleri doğrultusunda kraftliner, testliner, imitasyon kraftliner gibi kağıtlar kullanabilmekteyiz. Makine parkurumuzda 30 mm ile 100 mm arasında köşebent kanat ölçüsünü ve 2 mm ile 10 mm arasında köşebent et kalınlığını üretebilmekteyiz.

Cardboard edge protectors are used to minimize damage to products during storage and transportation in challenging conditions when they might receive external impacts. We use gray cardboard from local manufacturers for the production of cardboard edge protectors. The outer surfaces can be customized with paper types such as kraftliner, testliner, imitation kraftliner, based on customer preferences. Our machinery park can produce corner protectors with wing dimensions ranging from 30mm to 100mm and corner protector board thickness ranging from 2mm to 10mm.



# FEFCO KODLARI

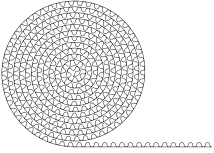
## FEFCO CODES

Dünyada uluslararası geçerliliği olan karton ambalaj tiplerini inceleyebilir, beğendiğiniz ve talep ettiğiniz kutu şeklinin detaylı çizimlerini ve numune çalışmalarını müşteri danışmanınızdan üzerindeki kodu vererek talep edebilirsiniz.

You can explore internationally recognized cardboard packaging types worldwide and request detailed drawings and sample work for the box shape you like from your customer advisor by providing the code on it.

## TİCARİ RULOLAR ve LEVHALAR | Commercial Rolls & Sheets

**0100**



**0110**



**0111**

NEW



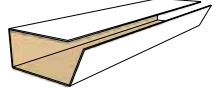
**0112**

NEW



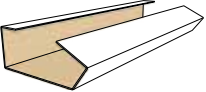
**0113**

NEW



**0119**

NEW



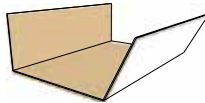
**0121**

NEW



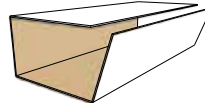
**0122**

NEW



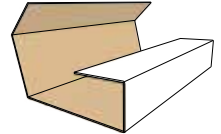
**0123**

NEW



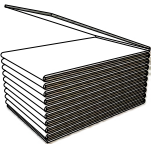
**0129**

NEW



**0130**

NEW

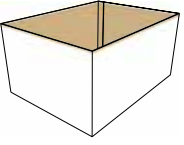


## SLOTLU KOLİLER | Slotted Boxes

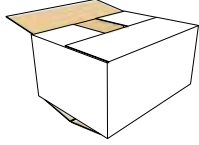
Yapıştırılmış veya dikişli, üst ve alt kapakları olan tek parça kolilerdir. Katlanmamış olarak gönderilen slotlu koliler, kapakları kullanılarak kapatılır ve kullanıma hazır hale getirilir.

Slotted boxes consist of basically one piece with a glued, stitched or taped manufacturers joint and top and bottom flaps. They are shipped flat, ready to use and require closing using the flaps provided.

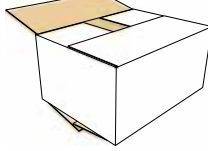
0200 M/A



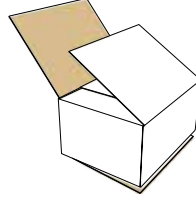
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0202 M/A



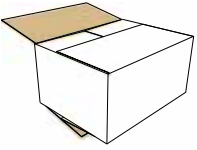
0203 M/A



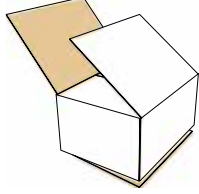
0204 M/A



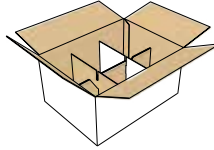
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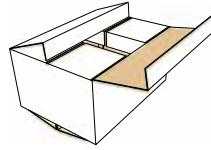
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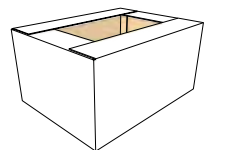
0207 M



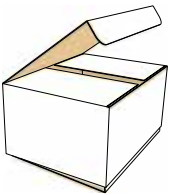
0208 M



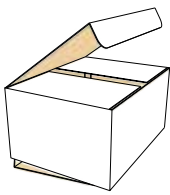
0209 M/A



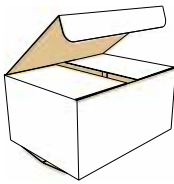
0210 M



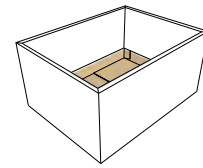
0211 M



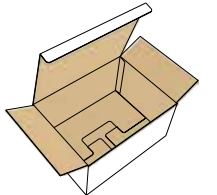
0212 M/A



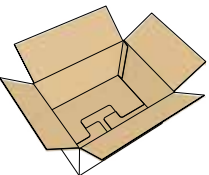
0214 M



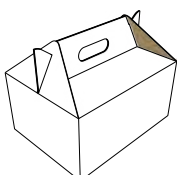
0215 M



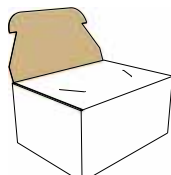
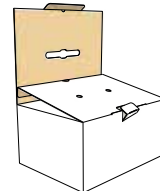
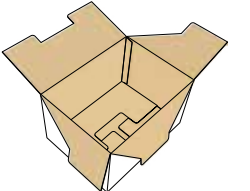
0216 M



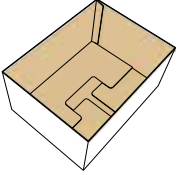
0217 M



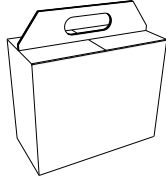
0218 M

0219 M  
NEW0220 M  
NEW

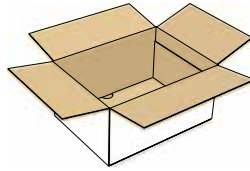
**0221** M  
NEW



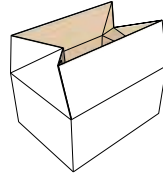
**0222** M  
NEW



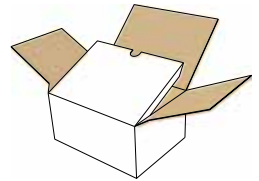
**0225** M



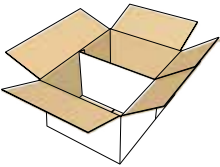
**0226** M



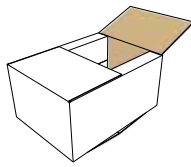
**0227** M



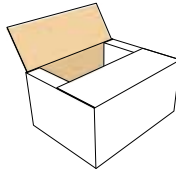
**0228** M/A



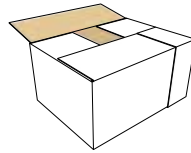
**0229** M



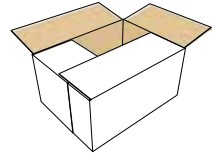
**0229.1** M  
NEW



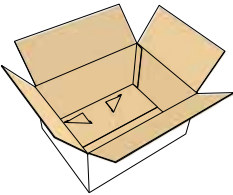
**0230** M/A



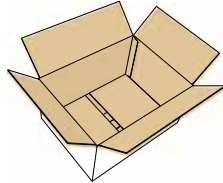
**0231** M/A



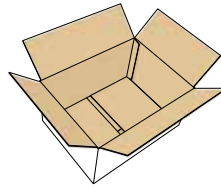
**0232** M  
NEW



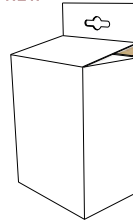
**0233** M  
NEW



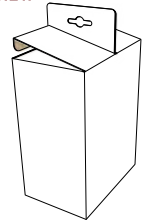
**0233.1** M  
NEW



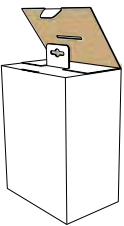
**0240** M  
NEW



**0241** M  
NEW



**0242** M  
NEW

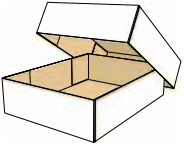


## TELESKOPIK TAVALAR | Telescopic Tray Boxes

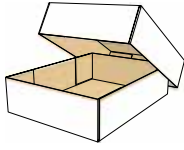
Teleskopik tava kutular alt-üst takım olarak ya da yalnızca alt veya yalnızca üst olarak üretilebilir. Ürünler kurulmadan düz olarak teslim edilir. Kurulumu tedarik eden firma tarafından gerçekleştirilir.

Telescopic boxes usually consist of more than one piece (e.g. top and bottom) and they fit over each other.

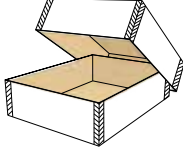
0300 M/A



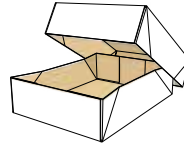
0301 M/A



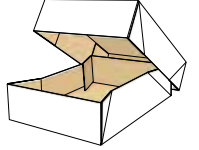
0302 M



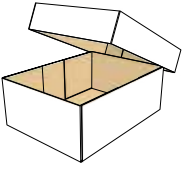
0303 M



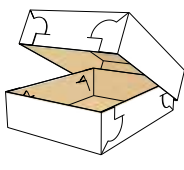
0304 M



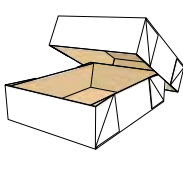
0306 M/A



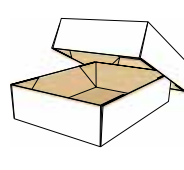
0307 M



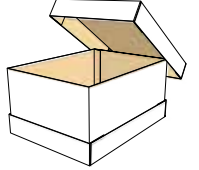
0308 M



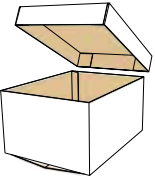
0309 M



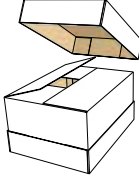
0310 M/A



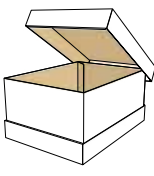
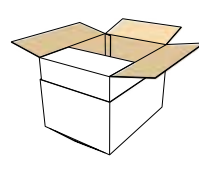
0312 M/A



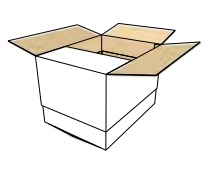
0313 M/A



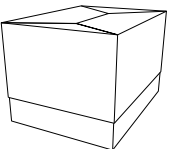
0314 M

0319 M/A  
NEW

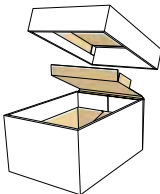
0320 M/A



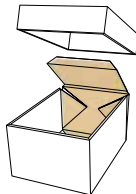
0321 M



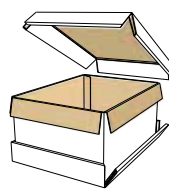
0322 M



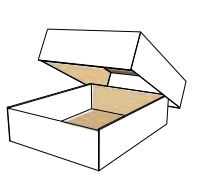
0323 M



0325 M/A



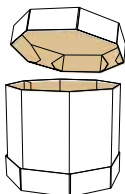
0330 M/A



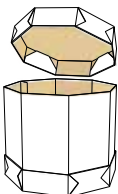
0331 M/A



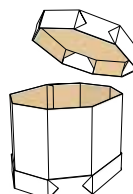
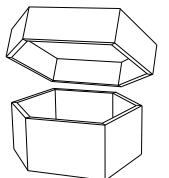
0350 A



0351 M/A



0352 M/A

0360 M  
NEW

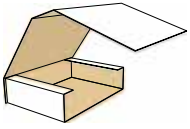


## DOSYA KUTULARI ve TAVALARI | Folder Boxes & Trays

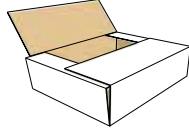
Klasör kutuları ve tavaları genellikle tek parça olarak üretilir. Kutunun alt kısmı ve tüm yan duvarları ürünün kapağını oluşturmak için kilitlidir. Müşteri talebine göre havalandırma deliği veya el tutamacı gibi özellikler eklenebilir.

Folder boxes and trays are usually made from one piece of board. The bottom of the box is hinged to form two or all side walls and the cover. Locking tabs, handles, display panels, etc. can be incorporated in some designs.

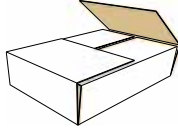
0400 M



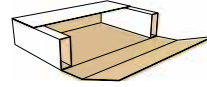
0401 M



0402 M



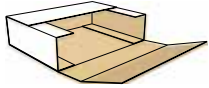
0403 M



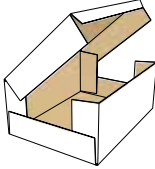
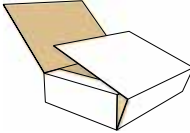
0404 M



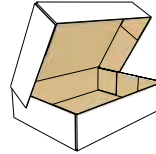
0405 M



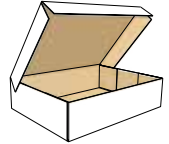
0406 A

0407 M  
NEW

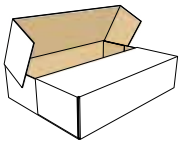
0409 M/A



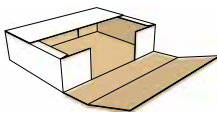
0410 M/A



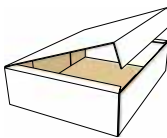
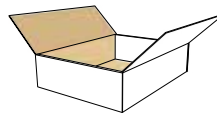
0411 M/A



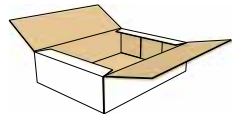
0412 M



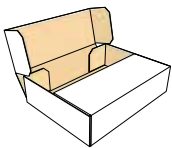
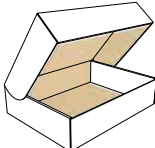
0413 M/A

0414 M  
NEW

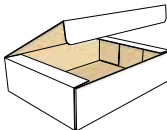
0415 M/A



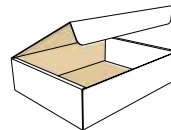
0416 M

0418 M  
NEW

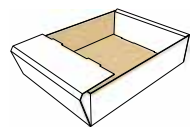
0420 M/A



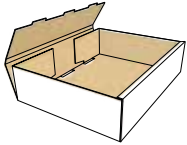
0421 M/A



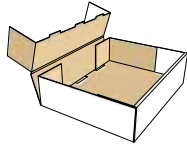
0422 M/A



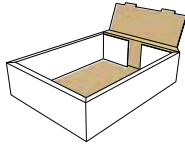
0423 M/A



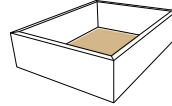
0424 M/A



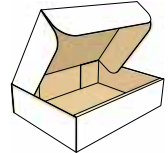
0425 M/A



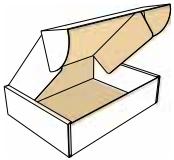
0425.1 M/A  
NEW



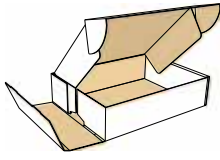
0426 M



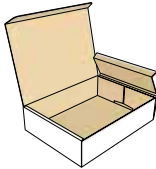
0427 M



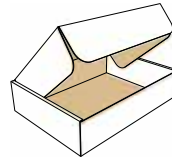
0427.1 M  
NEW



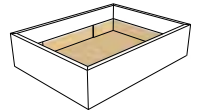
0428 M



0429 M



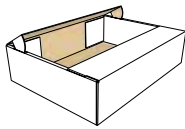
0430 M/A



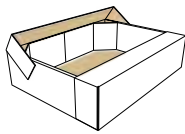
0431 M



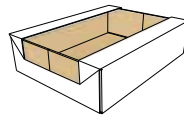
0432 M



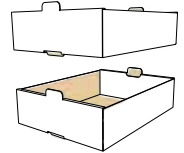
0433 M



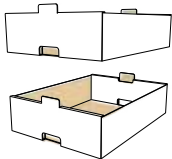
0434 A



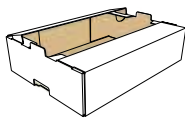
0435 M/A



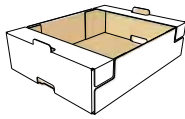
0435.1 M/A  
NEW



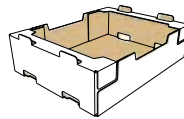
0436 M



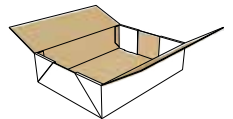
0436.1 A  
NEW



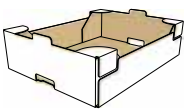
0436.2 A  
NEW



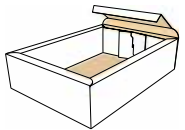
0437 M



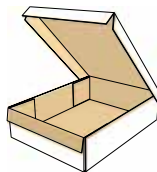
0438 A  
NEW



0439 M  
NEW



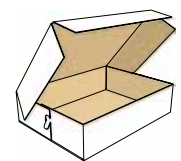
0440 A



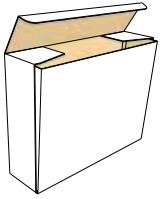
0441 A



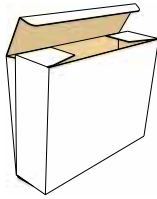
0442 M



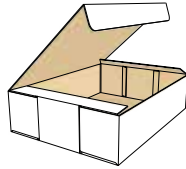
**0443 M**



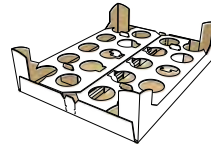
**0444 M**



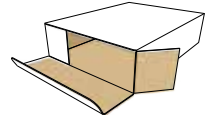
**0445 M**



**0446 A**



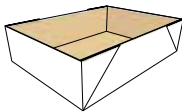
**0447 M**



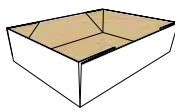
**0448 M**



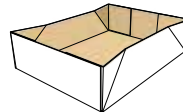
**0449 M**



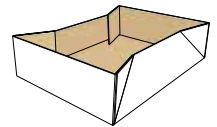
**0449.1 M**  
NEW



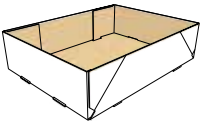
**0450 M**



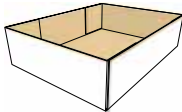
**0451 M**



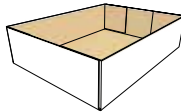
**0451.1 M**  
NEW



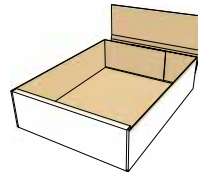
**0452 A**



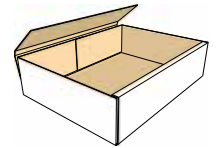
**0453 A**



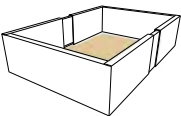
**0454 M**



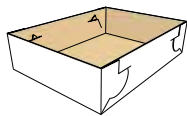
**0455 M**



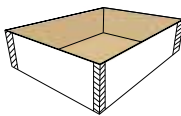
**0456 M**



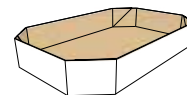
**0457 M**



**0458 M**



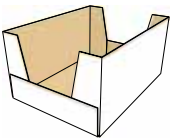
**0459 A**



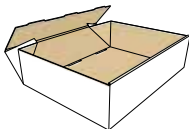
**0459.1 A**  
NEW



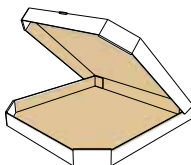
**0460 A**



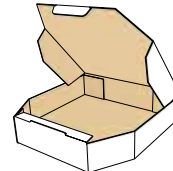
**0461 M/A**  
NEW



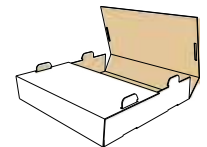
**0462 M**  
NEW



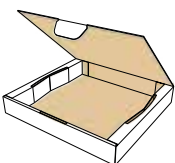
**0463 M**  
NEW



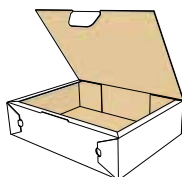
**0464 M**  
NEW



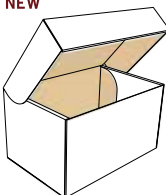
**0465 M**  
NEW



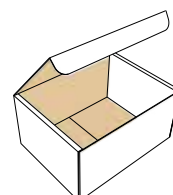
**0466 M**  
NEW



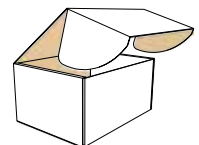
**0469 M**  
NEW



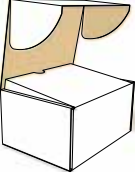
**0470 M**



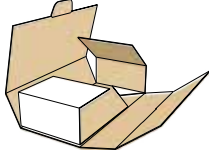
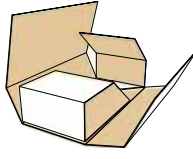
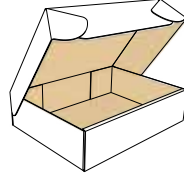
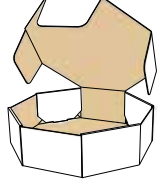
**0471 M**



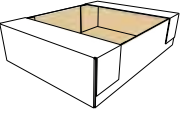
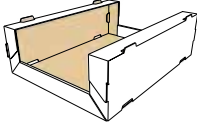
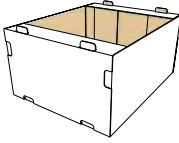
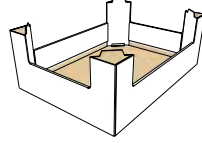
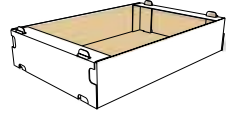
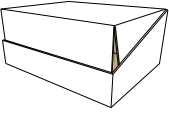
0472 M



0473 M

0474 M  
NEW0475 M  
NEW0476 M  
NEW

0480 A

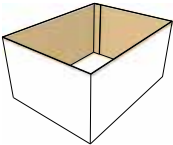
0481 M  
NEW0482 M  
NEW0483 A  
NEW0484 M  
NEW0485 M  
NEW

## KAYAR TİPİ KUTULAR | Slide Boxes

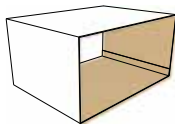
Birden çok parçadan meydana gelen kayar tipi kutular, parçaların birbiri içerisinde hareket etmesi ile kullanılırlar. Bazı durumlarda yalnızca taşıyıcı çerçeve olarak da kullanılabilirler.

Slide boxes consist of several pieces of liners and sleeves sliding in different directions into each other. This group also includes outside sleeves for other cases.

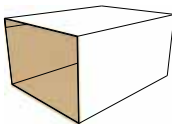
0501 M



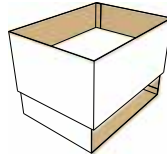
0502 M



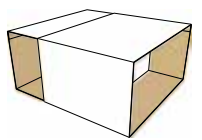
0503 M



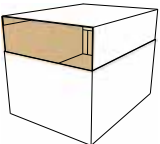
0504 M



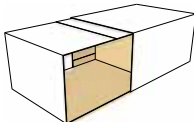
0505 M



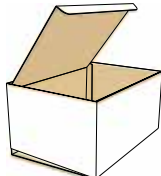
0507 M



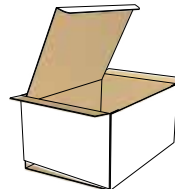
0509 M



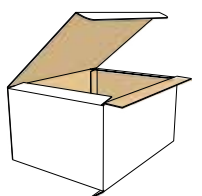
0510 M



0511 M



0512 M

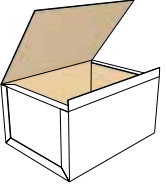


## SERT KUTULAR | Rigid Boxes

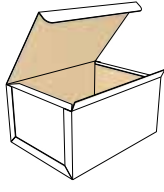
Bir gövde ve iki ayrı parça olarak üretilen sert mukavva malzemelerin dikiş veya yapıştırma yöntemiyle birleştirilmesinden oluşur.

Rigid boxes consist of two separate end pieces and a body that require stitching or a similar operation before they can be used.

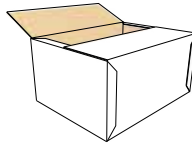
**0601** A



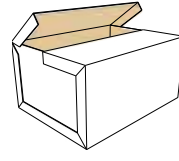
**0602** A



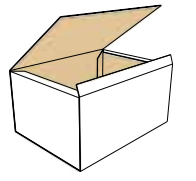
**0605** A



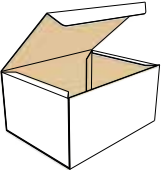
**0606** A



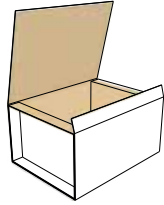
**0607** A



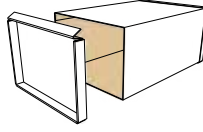
**0608** A



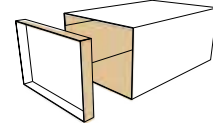
**0610** M/A



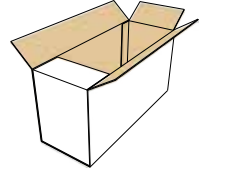
**0615** M/A



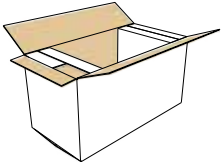
**0616** M/A



**0620** A



**0621** M

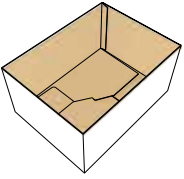


## HAZIR YAPIŞTIRILMIŞ KUTULAR | Ready-Glued Cases

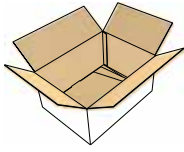
| Kutu birleştirilmelerinde yapıştırma kullanılan, genelde tek bir gövdeden oluşan kutulardır.

| Ready-glued cases consist of basically one piece, are shipped flat and ready to use by simple assembly.

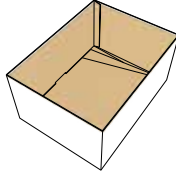
**0700 M**



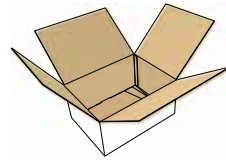
**0701 M**



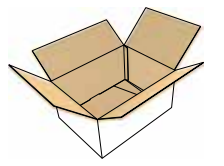
**0702 M**  
NEW



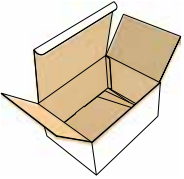
**0703 M**



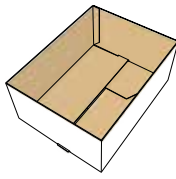
**0704 M**  
NEW



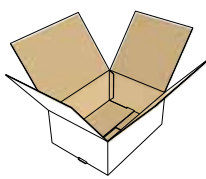
**0705 M**  
NEW



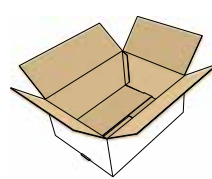
**0706 M**  
NEW



**0707 M**  
NEW



**0708 M**  
NEW



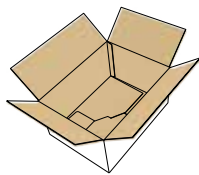
**0709 M**  
NEW



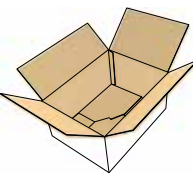
**0710 M**  
NEW



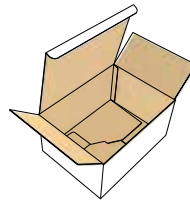
**0711 M**



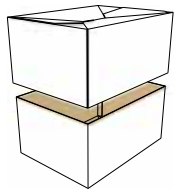
**0712 M**



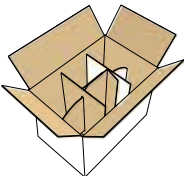
**0713 M**



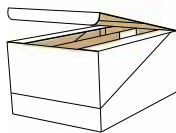
**0714 M**



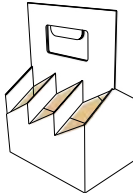
**0715 M**



**0716 M**



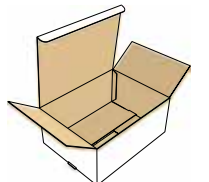
**0717 M**



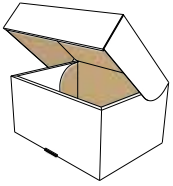
**0718 M**



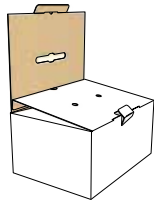
**0719 M**  
NEW



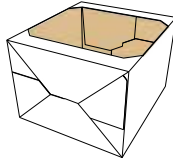
**0720 M**  
NEW



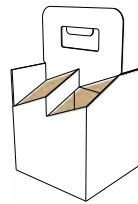
**0721 M**  
NEW



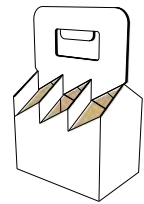
**0722 M**  
NEW



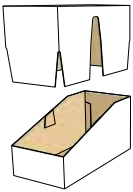
**0723 M**  
NEW



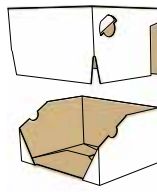
**0724 M**  
NEW



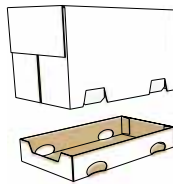
**0725 M**  
NEW



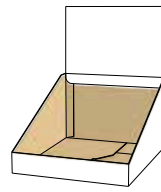
**0726 M**  
NEW



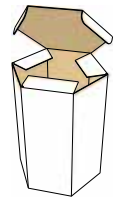
**0727 A**  
NEW



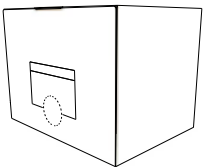
**0728 M**  
NEW



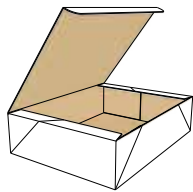
**0730 M**  
NEW



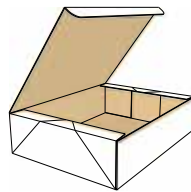
**0740 M**  
NEW



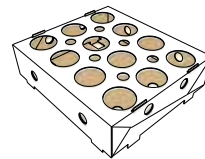
**0747 M**



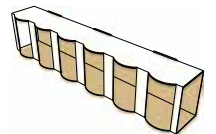
**0748 M**



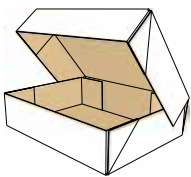
**0751 M**



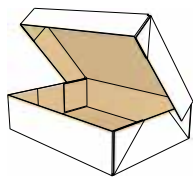
**0752 M**



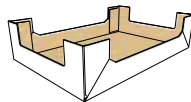
**759 M**



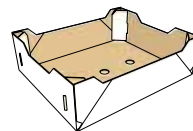
**0761 M**



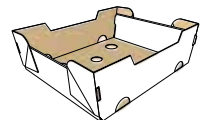
**0770 M**



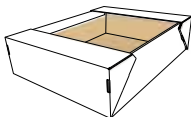
**0771 M**



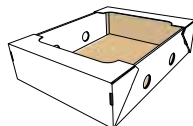
**0772 M**



**0773 M**



**0774 M**



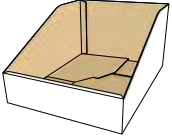
## PERAKENDE ve E-TİCARET AMBALAJLARI

### Retail & E-Commerce Packaging

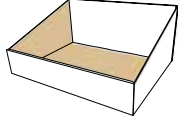
Kargo gönderimlerini kolaylaştıran, genellikle tek parça olarak üretilen kutulardır. Ürünlerinizin korunması ve taşınması için ideal seçeneklerdir. Yüksek kaliteli kağıtların kullanılması, kutuların dayanıklılığını artırarak ürünlerinizin güvenli bir şekilde ulaşmasını sağlar.

Retail and e-commerce packaging category shows the typical styles used for Point of Sale (POS) displays and trays as well as styles for the online trade.

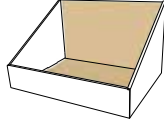
**0801 M**  
NEW



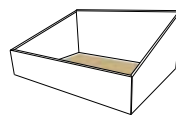
**0802 M/A**  
NEW



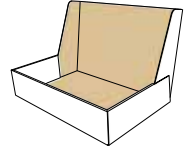
**0803 M**  
NEW



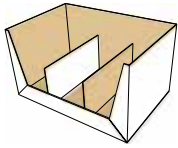
**0804 M**  
NEW



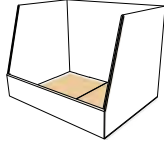
**0808 M**  
NEW



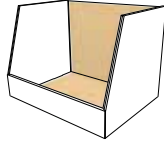
**0809 M**  
NEW



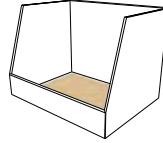
**0815 M**  
NEW



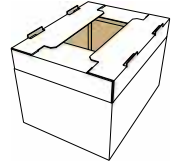
**0816 M**  
NEW



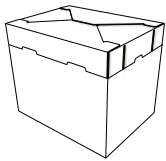
**0817 M**  
NEW



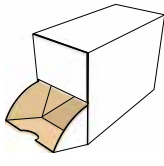
**0818 M**  
NEW



**0819 M**  
NEW



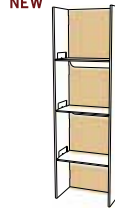
**0825 M**  
NEW



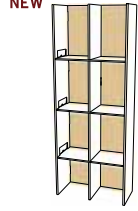
**0826 M**  
NEW



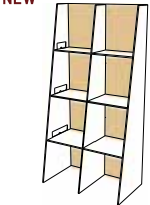
**0830 M**  
NEW



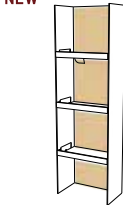
**0831 M**  
NEW



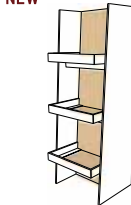
**0832 M**  
NEW



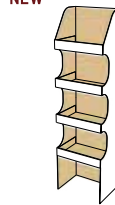
**0833 M**  
NEW



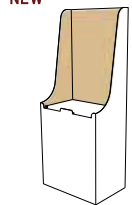
**0834 M**  
NEW



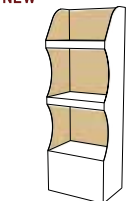
**0840 M**  
NEW



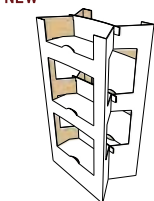
**0841 M**  
NEW



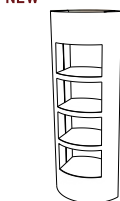
**0842 M**  
NEW



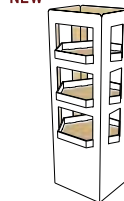
**0843 M**  
NEW



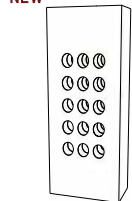
**0845 M**  
NEW



**0846 M**  
NEW

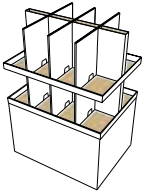


**0847 M**  
NEW

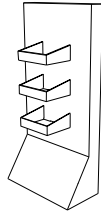




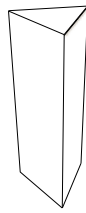
**0848 M**  
NEW



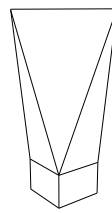
**0849 M**  
NEW



**0850 M**  
NEW



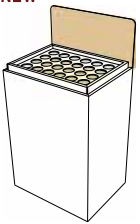
**0851 M**  
NEW



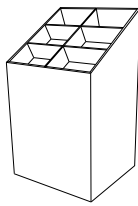
**0852 M**  
NEW



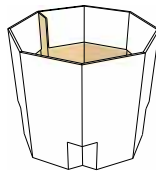
**0853 M**  
NEW



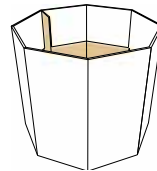
**0854 M**  
NEW



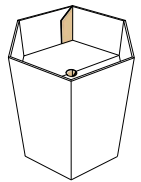
**0858 M**  
NEW



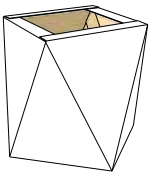
**0859 M**  
NEW



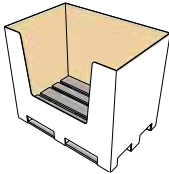
**0860 M**  
NEW



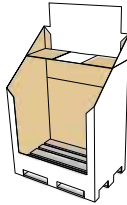
**0861 M**  
NEW



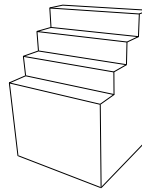
**0865 M**  
NEW



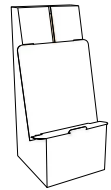
**0866 M**  
NEW



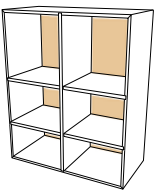
**0870 M**  
NEW



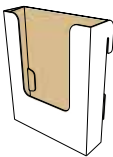
**0871 M**  
NEW



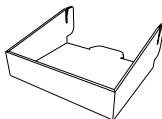
**0872 M**  
NEW



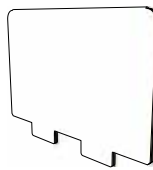
**0873 M**  
NEW



**0874 M**  
NEW



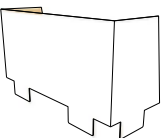
**0880 M**  
NEW



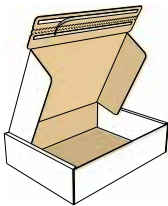
**0881 M**  
NEW



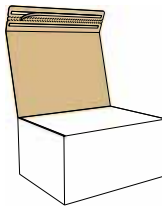
**0882 M**  
NEW



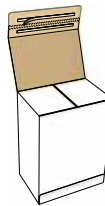
**0885 M**  
NEW



**0886 M**  
NEW



**0887 M**  
NEW



## İÇ DONANIMLAR | Interior Fitments

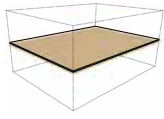
İç donanımlar, koli içerisine konulan ürünleri ayırıştırarak ürünler arası teması önlemek için kullanılmaktadır. Ara karton veya ayırıcı karton olarak da geçen iç seperatör, ürünler arasında ayırıcı özelliğe sahip olduğu kadar ürünlerin hasar görmesini de önlemektedir. Bu ürünler, koliden ayrı ya da koli ile entegreli olarak üretim yapılabilmektedir. Parça sayısı veya ürün boyutları kategorilere göre artırılıp azaltılabilir.

Interior fitments such as inside liners, pads, partitions, dividers, etc. whether integrated in the box design or as separate items. Any shown number of panels is arbitrary and may be increased or decreased as required.

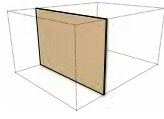
0900 M/A



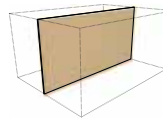
0901 M/A



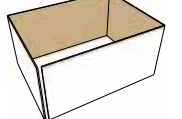
0902 M/A



0903 M/A



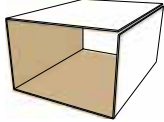
0904 M/A



0905 M/A



0906 M/A



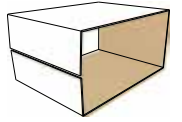
0907 M/A



0908 M/A



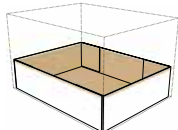
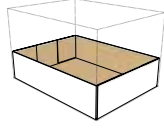
0909 M/A



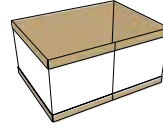
0910 M/A



0911 M/A

0912 M/A  
NEW

0913 M



0914 M



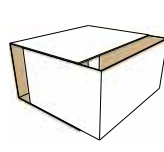
0920 M



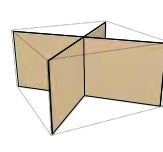
0921 M



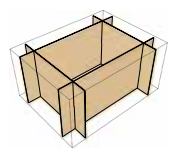
0929 M



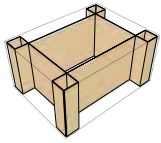
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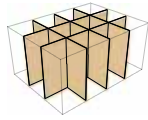
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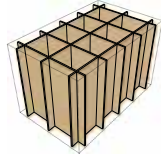
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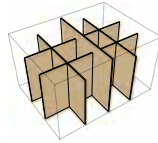
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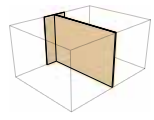
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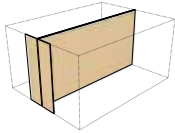
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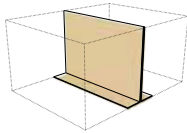
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NEW



0937 M  
NEW



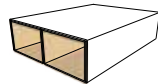
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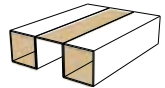
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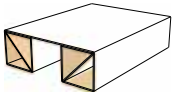
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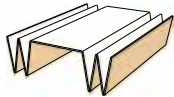
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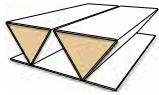
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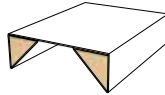
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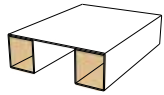
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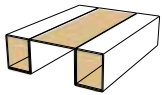
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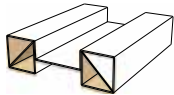
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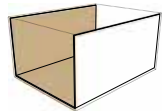
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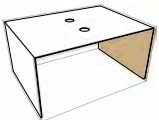
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0951 M



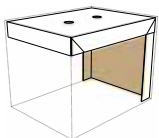
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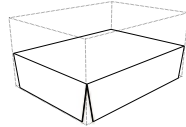
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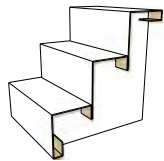
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NEW



0955 M  
NEW



0960 M  
NEW



0965 M



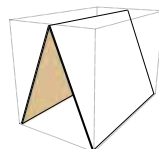
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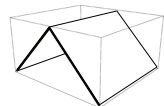
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0970 M



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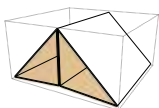
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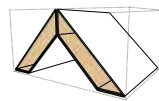
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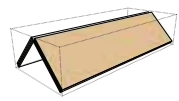
0974 M



0975 M



0976 M



# ARAŞTIRMA GELİŞTİRME

## Research & Development



KOLİSPAK AMBALAJ, ambalaj sektöründe sadece kaliteyi değil, aynı zamanda sürekli olarak gelişen ve değişen müşteri ihtiyaçlarına uyum sağlamayı da hedefliyor. Bu vizyonuyla birlikte, şirket Ar-Ge (Araştırma ve Geliştirme) çalışmalarına büyük önem veriyor.

Ambalaj sektörü, sürekli olarak yenilik ve değişim gerektiren bir alandır. Müşterilerin talepleri, çevresel faktörler ve teknolojik ilerlemeler, ambalajların tasarımından üretimine kadar birçok yönünü etkiliyor. KOLİSPAK AMBALAJ, bu değişimleri önceden görmek ve müşterilere en iyi çözümleri sunmak amacıyla Ar-Ge ekibiyle yoğun bir şekilde çalışıyor.

Ar-Ge çalışmalarının merkezinde, ambalajların çevresel etkilerini azaltma çabası bulunuyor. KOLİSPAK, çevre dostu üretim uygulamalarına öncülük etmeyi hedefliyor ve sürdürülebilir ambalaj çözümleri geliştiriyor. Geri dönüştürülebilir malzemelerin kullanımı, ambalajların hafifletilmesi ve atık miktarının azaltılması gibi konularda Ar-Ge çalışmaları yürütülüyor.

KOLİSPAK AMBALAJ is a packaging company that aims to not only provide quality, but also to adapt to the constantly evolving and changing needs of customers. In line with this vision, the company attaches great importance to R&D (Research and Development) activities.

The packaging industry is a field that constantly requires innovation and change. Customer demand, environmental factors, and technological advancements all affect many aspects of packaging, from design to production. KOLİSPAK AMBALAJ works closely with its R&D team to anticipate these changes and provide the best solutions to customers.

The focus of R&D activities is to reduce the environmental impact of packaging. KOLİSPAK aims to lead the way in sustainable production practices and develops sustainable packaging solutions. R&D activities are carried out in areas such as the use of recyclable materials, the lightweighting of packaging, and the reduction of waste.

# KALİTE ve SÜRDÜRÜLEBİLİRLİK

## Quality & Sustainability



Sanayi Sicil Belgesi

Firmamız, "Kolispak Güvendir" anlayışını benimseyerek ürün hammadde temini, üretim aşaması ve nihai ürünün tüketiciye ulaşmasına kadar geçen süreçte yılların verdiği bilgi deneyim ve tecrübeyi pekiştirerek sipariş deneyiminizi kusursuz hale getirmeyi ilke haline getirmiştir.

ISO 9001, ISO 14001, ISO 22000, FSC, sertifikaları ile Kolispak, kalite konusundaki güvenilirliğini belgelemiştir. Bu standartları hassasiyetle uygulamaktadır.

Üretim sürecimizde insan sağlığına önem vermek, ulusal ve uluslararası yasal sorumluluklarımızı yerine getirmek, müşteri memnuniyetini en üst düzeyde sağlamak, teknolojiyi yakından takip etmek temel kalite prensiplerimizdir.

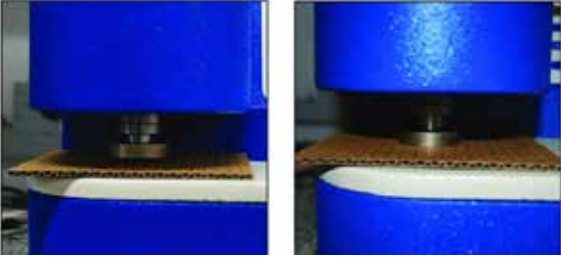
Our company adopts the "Kolispak Assurance" concept, striving to perfect your ordering experience by reinforcing the knowledge, expertise, and experience gained over the years throughout the entire process, from raw material procurement to production and the final delivery of the product to the consumer.

With ISO 9001, ISO 14001, ISO 22000, and FSC certifications, Kolispak not only demonstrates its reliability in terms of quality but also diligently applies these standards.

In our production process, we prioritize human health, fulfill our national and international legal responsibilities, ensure the highest level of customer satisfaction, and stay up to date with technology.

## OLUKLU MUKAVVAYA VE AMBALAJA UYGULANAN TESTLER

### Some Tests Applied to Corrugated Cardboard & Packaging

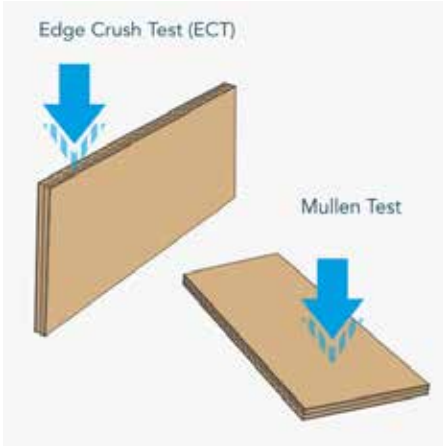


#### **Kalınlık Testi | Thickness Test**

Oluklu mukavvaların en üst ile en alt tabakasının arasındaki mesafenin ölçülmesidir. Oluklu mukavva üretim hattında veya koli üretim hattında mukavvanın doğru kalınlıkta üretilip üretilmediğini kontrol etmek için kullanılır.

It measures the distance between the top and bottom layers of corrugated cardboard. This test is used to check whether corrugated cardboard is produced at the correct thickness in the corrugated cardboard Production Steps or the box Production Steps.

#### **Patlatma Dayanımı Testi | Bursting Strength Test (BST)**



Oluklu mukavva levhaya iç veya dış kısmından alacağı darbeye karşı mukavemetini ölçen bir testtir. Mukavvayı delmek için bir kuvvet uygulanır. Çıkan sonuç psi cinsinden mukavvayı delmek için ne kadar bir kuvvet uygulanması gerektiğini bildirir. Koli içersinde değişik şekillerde malzeme taşıyan firmaların tercih ettiği bir test yöntemidir.

It measures the resistance of corrugated cardboard sheets to an impact from either e result in psi indicates how much force is required to puncture the cardboard. This is a preferred test method for companies transporting materials in various ways.

#### **Kenar Ezilme Dayanım Testi | Edge Crush Test (ECT)**



Mukavvayı dik hale getirerek yukarıdan mukavva çökene kadar basınç uygulanır. Çıkan sonuca göre mukavvanın taşıyabileceği inç başına pound'a yani (lbs/inç) karşılık gelen bir değer bulunur.

Corrugated cardboard is made upright, and pressure is applied from above until the cardboard collapses. The result determines how many pounds per inch (lbs/in) of load the cardboard can withstand.

## Yatay Ezilme Dayanım Testi | Flat Crush Test (FCT)



FCT testi, oluklu mukavvanın yüzeyine basınç uygulanarak mukavvanın darbe emme gücü test edilerek kPa cinsinden bir değere ulaşılır.

FCT: The FCT measures the cardboard's ability to absorb impact by applying pressure to its surface, resulting in a value in kPa.

## Yapışma Dayanımı Testi | Peel Adhesion Test (PAT)



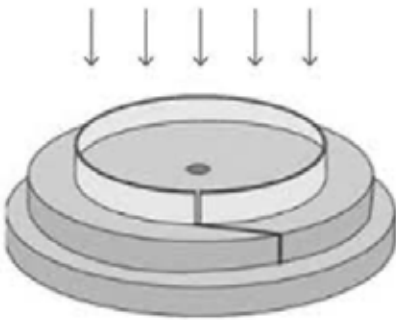
Düz kat ve olukların birbirlerine yapışma testini ölçen bir testtir.

It measures the adhesion between flat sheets and corrugated layers.

# KAĞIDA UYGULANAN BAZI TESTLER

## Some Tests Applied to Paper

### Halkasal Ezilme Testi | Ring Crush Test (RCT)



Oluklu mukavvanın dış yüzeyinin üretileceği kağıdın ezilme dayanımının yapıldığı bir testtir. Daire şeklinde test cihazına yerleştirilen kağıda ezilmesi için gerekli olan minimum kuvvet uygulanır. Kağıdın ezilmemesi için uygulanan maksimum kuvvet değeri kaydedilir. Bulunan değer kN/m cinsinden ifade edilir.

It is a test of the crush resistance of the paper from which the external surface of corrugated cardboard will be produced. A circular test specimen is placed in a testing device, and the minimum force required to crush the paper is applied. The maximum force value to prevent the paper from being crushed is recorded. The result is expressed in kN/m.

## Dikey Ezilme Testi | Column Crush Test (CCT)



Üretilen mukavvanın ondüle kısmında kullanılacak olan kağıdın dikey dayanım testidir. Malzeme laboratuvarında önce ısıtılır. Daha sonra ondüle yapıcı bir cihaz ile oluklu haline getirilir. Yukarıdan uygulanan bir kuvvetle test cihazına dikey yerleştirilmiş ondülenin ezilmeye dayanabileceği maksimum kuvvet kN/m cinsinden belirlenir.

This test measures the vertical strength of the paper that will be used in the corrugated part. The material is heated in the laboratory, then corrugated using a corrugating machine. The maximum force in kN/m that the corrugated sheet can withstand when vertically placed in the testing device is determined.

## Yüzey Ezilme Testi | Concora Medium Test (CMT)



CCT testinden farklı test yapılacak olan ondülenin cihaza dikey değil, yatay olarak yerleştirilmesiyle uygulanır. Test uygulanırken amaç en yüksek mukavemet değerini bulmaktan ziyade mukavvanın sertliği için optimum noktanın belirlenme çabasıdır. Çok yüksek CMT değerine sahip olan bir kağıt ondüle oluşumunda zorluk, mukavvada çatlama gibi problemlere sahip olacakken, çok düşük CMT değerine sahip olan kağıt ise makinede çekişte, kolay kopma, çabuk ezilme gibi sorunları beraberinde getirecektir. Testte en az 6 parça kağıt kullanılır sonuçların ortalaması alınarak CMT yüzey ezilme testi değeri belirlenir.

Unlike the CCT test, the corrugated sheet to be tested is placed horizontally in the device. The aim is not to find the highest strength value, but to determine the optimum point for the rigidity of the cardboard. A paper with a very high CMT value will have problems with corrugation, such as difficulty in formation and cracking in the cardboard. On the other hand, paper with a very low CMT value will result in issues during machine operation, easy tearing, and quick crushing. At least 6 pieces of paper are used in the test, the CMT surface crushing test value is determined by averaging the results.

## Çekme Kopma Dayanım Testi | Tensile Strength Test

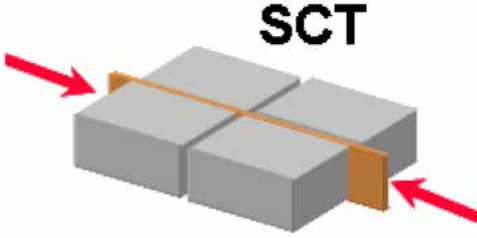


Kağıttan 15 mm genişliğinde 100 mm uzunluğunda şeritler kesilerek test cihazına yerleştirilir. Sağa ve sola çekilerek koptuğu noktadaki kuvvet kaydedilerek kağıdın direnci belirlenir.

Strips of paper, 15 mm in width and 100 mm in length, are cut and placed in the testing machine. The paper is pulled to the right and left until it breaks, and the force at which it breaks is recorded to determine the paper's resistance.



## Kısa Aralıklı Ezilme Testi | SCT



Test için gerekli ölçülerde kesilen kağıda kısa aralıklarla baskı (sıkıştırma) yapılır. Böylece kağıdın dayanımı kN/m biriminden belirlenerek test sonucuna ulaşılır.

Pressure is applied to the paper, cut to the required dimensions, at short intervals for this test. Thus, the strength of the paper is determined from the unit of kN/m and the test result is reached.

## Nem ve Rutubet Testi | Moisture and Humidity Test



Nem üründe bulunan su miktarıdır. Kağıtta ondülede veya mukavada nemi ölçen çeşitli test cihazları vardır. Bu testi yapmanın en basit yöntemi ürünü fırında kurutmaktır. Önceden 105 derecede ısıtılmış fırın içerisine koyulan ürünün kurutulmadan önceki ve sonraki değerlerinin arasındaki yüzdesel fark malzemedeki nemin değerini gösterir.

Karton malzemelerdeki nem miktarı ürünün işlenebilirliğini, basılabilirliğini ve kullanılabilirliğini ciddi derecede etkilemektedir. Kağıt ürünler bulunduğu ortamda nem almaya da rutubet vermeye de müsait ürünlerdir. Karton ürünlerin saklandığı ortamdaki rutubet miktarı ile ürünün sahip olduğu nemin dengeli olması gerekmektedir. Rutubet ortamının dengesiz olduğu durumda karton ile ortam arasında rutubet alışverişi olur. Bunun sonucunda üründe mukavemet kaybı, baskı sorunu, katlanma problemi gibi çeşitli olumsuzluklar meydana gelir. İdeal ortam çeşitli kuruluşlarca 21 derece olarak kabul edilmektedir.

Moisture is the amount of water present in a product. Various testing devices are available to measure moisture in paper, corrugated cardboard, or cardboard. The simplest method to perform this test is to dry the product in an oven. The percentage difference between the values before and after drying the product placed in a preheated oven at 105 degrees celsius indicates the moisture content of the material.

The moisture level in cardboard materials significantly affects the workability, printability, and usability of the product. Paper products are susceptible to both absorbing moisture from and emitting humidity to their surroundings. It is crucial for the moisture level in the environment where cardboard products are stored to be balanced with the moisture content of the product. In cases where humidity in the environment is imbalanced, moisture exchange occurs between the cardboard and the surroundings, leading to various issues such as reduced strength, printing problems, and folding difficulties. An ideal environment for this purpose is commonly accepted as 21 degrees celsius by various organizations.

## Kalınlık Testi | Thickness Test



Mikrometre isimli test cihazıyla kağıdın iki yüzeyi arasındaki mesafe ölçülür.

The distance between the two surfaces of the paper is measured using a device called a micrometer.

## Gramaj Testi | Basis Weight Test



1 m<sup>2</sup> alana sahip kağıdın gram cinsinden kalibre edilmiş hassas terazide ölçülmesiyle bulunur. Test yapılan alanın hava şartları standart olmalıdır.

It is determined by measuring 1m<sup>2</sup> of paper on a calibrated precision balance in standardized air conditions.

## Kâğıt Su Emme Kapasite Testi | Cobb Test



Kağıdın belli bir zaman diliminde emdiği su miktarını tespit etmek için kullanılan test yöntemidir. Nemden ve rutubetten arındırılmış olan kağıt 10 mm derinliğinde suda bekletilir. Birim zamanda emdiği su miktarına göre direnci ölçülür. Kağıdın arka yüzeyinde geri dönüştürülmüş hammaddeler kullanıldığı için genellikle sadece ön yüzüne uygulanır.

This test is used to determine the amount of water absorbed by the paper over a specific period. Paper, which is free from moisture and humidity, is placed in 10 mm of water and the resistance is measured based on the amount of water absorbed

in a unit of time. Since recycled raw materials are used on the back surface of the paper, this test is generally applied to the front surface only.



## Özel Tasarımlar ve Alternatif Çözümlerimizle Rakiplerinizin Önünde Olun

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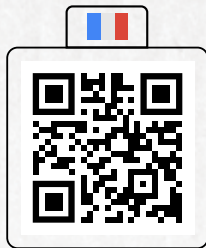


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# KOLISPAK AMBALAJ



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