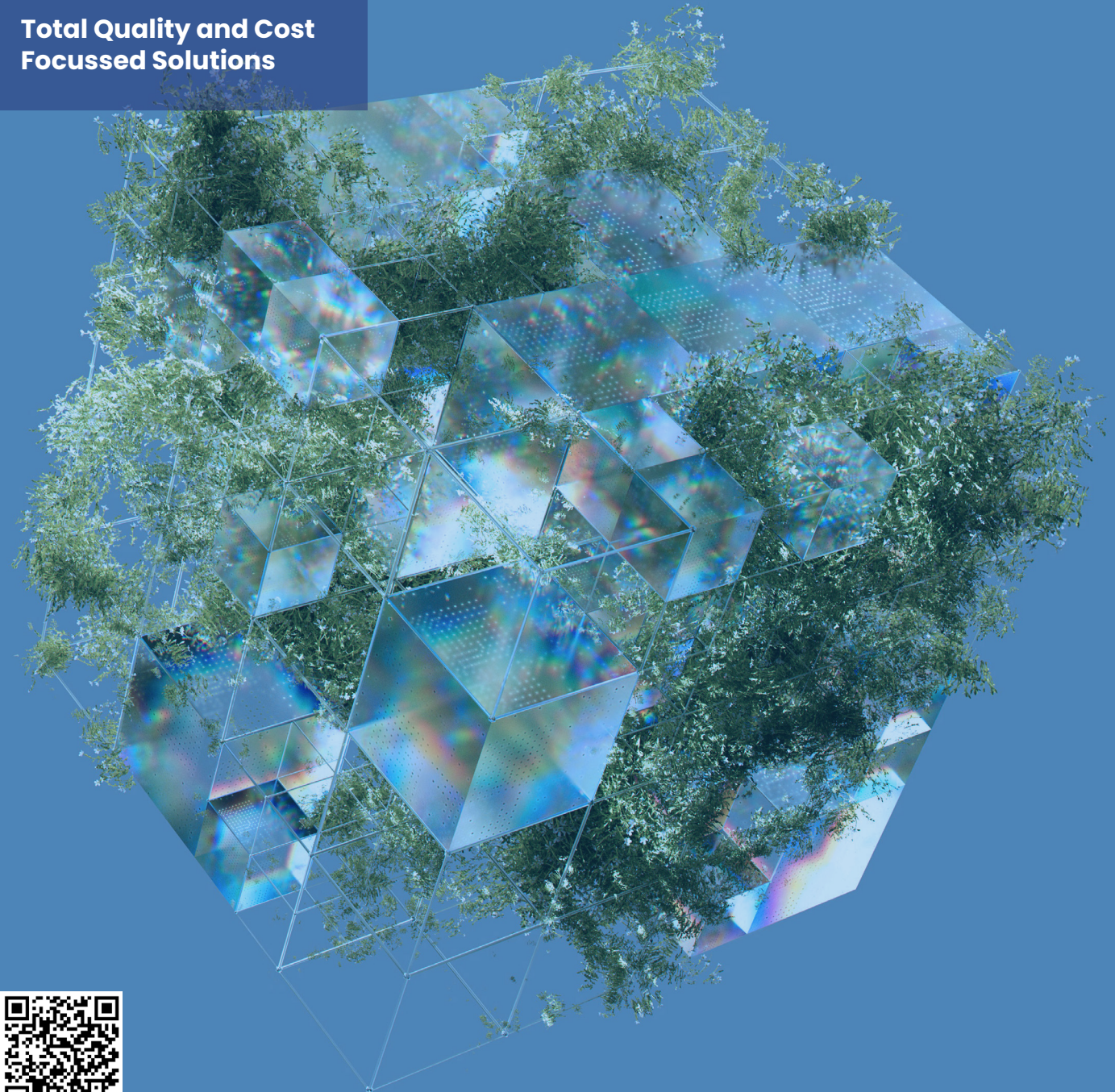




Innovating Sustainable Solutions

**Total Quality and Cost
Focussed Solutions**



MEC Chemical Plastic and Paper Solutions

Leading the future of sustainable solutions.

MEC Chemical provides industry-specific original and recycled plastic granules, films, cardboard cores and pigment materials for customers.

It provides customer-specific solutions based on total quality, total cost, speed and excellence in service.

It represents and partners with global companies that have the widest portfolio in their field.

The main sectors we serve are flexible packaging, label, paper, plastic, masterbatch and paint industries.

It has made its portfolio sector and customer-specific by making recycled LDPE, BOPP granule production investment partnership, BOPET, BOPP film, cardboard core slicing unit investment partnership to provide customer-specific solutions.

Why MEC Chemical

- **Total Quality and Cost-Focused Solutions:** We offer the highest quality standards with total cost advantage.
- **Sectoral Expertise:** We offer sector-specific, innovative solutions that add value to your business.
- **Customer-Specific Solutions:** We develop products suitable for your special dimensions, design and performance requirements.
- **Fast Delivery & Warehouse Solutions:** We always deliver your orders on time with our logistics and warehouse support.
- **Sustainability:** We contribute to your sustainability goals with our recycled products.



20+

Years of Experience



90%

Customer Satisfaction

Our Vision

To be a global company that creates value for its stakeholders within the framework of total quality, total cost, and sustainability.

Our Mission

To support the efficiency and continuous development of our stakeholders by providing custom products and services that meet high quality standards, are cost-effective, fast, and environmentally friendly.

Our Certificates



ISO 9001:2015



ISO 14001:2015



ISO 22000:2018



ISO 10002:2018

İletişim:

MECE KİMYASAL PLASTİK VE KAĞIT MALZEMELER ANONİM ŞİRKETİ

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01 Recycled LDPE and BOPP Granule Products



MEC Chemical processes certified waste LDPE and BOPP materials sourced from leading global plastic companies in modern recycling facilities in Turkey to produce high-quality granules.

Through our waste supply agreements with leading global companies, we offer sustainable, economical and high-performance raw material solutions.

Product Portfolio

1. Recycled LDPE (Low Density Polyethylene)

General Properties

Density:	0.91 - 0.93 g/cm ³
Melting Point:	105 - 115°C
MFI (Melt Flow Index):	0,5-9 g/10min
Tensile Strength:	8 - 12 MPa
Impact Resistance:	High
Water Absorption:	Very low
Chemical Resistance:	Good against acids and bases



Application-Specific Requirements:

High flexibility, low gel ratio

Packaging: Food contact suitability (compliant with international standards)

Technical Expectations

Purity:	>90%
Color Stability:	Minimum yellowing
MFI Stability:	±10%
Odor and VOC Level:	Low
Mechanical Performance:	High tensile, impact and flexural strength
Surface Quality:	Smooth, low gel and black spots
Moisture Content:	<0.1%
Thermal Stability:	Controlled by OIT (Oxidation Induction Time)
Blend Homogeneity:	Ideal filler and masterbatch distribution

2. Recycled BOPP (Biaxially Oriented Polypropylene)

General Properties

Density:	0.90 - 0.91 g/cm ³
Melting Point:	160 - 170°C
MFI (Melt Flow Index):	3-12 g /10min
Tensile Strength:	25 - 35 MPa
Impact Resistance:	Medium
Water Absorption:	Very low
Chemical Resistance:	Resistant to organic solvents



Application-Specific Requirements:

Film Production: High transparency, printing and lamination compatibility

Packaging: Food contact suitability, high strength

Labeling: Perfect surface quality and color stability

Technical Expectations

Purity:	>70%
Color Stability:	Minimum yellowing
MFI Stability:	±10%
Odor and VOC Level:	Low
Mechanical Performance:	High tensile, impact and flexural strength
Surface Quality:	Smooth, low gel and black spots
Moisture Content:	<0.1%
Thermal Stability:	Controlled by OIT
Blend Homogeneity:	Ideal filler and masterbatch distribution



Usage Areas

Flexible packaging films (food, cosmetics, pharmaceuticals)

Label and graphic applications

Lamination and coating processes

Recyclable industrial packaging solutions



02 BOPP & BOPET Films



MEC Chemical represents leading global manufacturers of Biaxially Oriented Polyethylene Terephthalate (BOPET) films and Biaxially Oriented Polypropylene (BOPP) films worldwide.

We offer products with different properties sourced from global companies in custom sizes according to customer needs. With our technical support and fast delivery services, we provide the most suitable solutions for packaging and special industrial applications.

1. BOPET Film (Biaxially Oriented Polyethylene Terephthalate)

Biaxially Oriented Polyethylene Terephthalate (BOPET) films offer superior mechanical durability, thermal stability, and chemical resistance. These properties make BOPET films an ideal choice for both industrial and specialized applications.

Features

- High tensile strength and dimensional stability
- Excellent thermal and chemical resistance
- Transparent, metallized, or matte surface options
- Suitable for electrical insulation
- Compliance with food safety standards



Technical Specifications

Thickness	Coating Type	Product Structure	Segment	Subsegment
12-36	PVdC, SiOx	Metallized	Packaging – Food	Transparent packaging
8-30	Acrylic	Co-extruded	Packaging – Flexible	Stand-up pouch
3-12	ITO	Microporous	Electronics – Capacitor	Electrolytic capacitor
50-125	Anti-reflective	Optical transparent	Electronics – Screen	Touch panel
100-250	PE	Double coated	Graphics – Photography	Photo paper
100-300	Aluminum	Laminated	Construction – Roofing	Water insulation
50-150	Metallized	Reflective	Automotive – Headlight	Reflector
20-50	Ethylene Oxide	Sterile	Medical – Pharmaceutical	Blister packaging
250-350	PVDF	Laminated	Energy – Solar	Backsheet
25-75	PU	Thermal	Textile – Lamination	Footwear
12-25	Ceramic	Porous	Battery – Li-ion	Separator film
50-100	PVdF	Single layer	Battery – Insulation	Battery insulation
25-75	Nylon/PP	Multi-layer	Battery – Casing	Battery casing

2. BOPP Film (Biaxially Oriented Polypropylene)

Biaxially Oriented Polypropylene (BOPP) films stand out in the packaging industry with excellent transparency, high strength, and versatile usage properties. These films, produced with biaxial stretching technology, have a wide range of applications.

Features

- High transparency and gloss
- Excellent printing and lamination compatibility
- Moisture and gas barrier
- Environmentally friendly and recyclable options
- Different thickness and surface options (matte, glossy, metallized)



Technical Specifications

Thickness	Coating Type	Product Structure	Segment	Subsegment
15-50	PVdC (Moisture Barrier), Aluminum Coating	Transparent BOPP, Metallized BOPP	Food Packaging	Chip packets, ice cream packaging
20-60	Acrylic Adhesive, Hot-melt	Adhesive Coated BOPP	Labeling and Wrapping	Beverage labels, shrink film
15-50	PE/PP Lamination Coating	Co-extruded BOPP	Printing and Lamination	Cosmetic box lamination
20-50	Silicone/ Acrylic Adhesive	Acrylic Coated BOPP	Adhesive Tapes	Packaging tape, electrical insulation
18-25	UV Coating (Gloss Enhancer)	High Gloss BOPP	Cigarette Packaging	Cigarette outer packaging
12-30	EVA/PU Coating	Thermal Laminated BOPP	Lamination Films	Pharmaceutical blister, chocolate coating
15-40	Vacuum Metallization	Aluminum Coated BOPP	Metallized Films	Confectionery packaging, snack film
2-10	Special Polymer Coating	High Dielectric BOPP	Capacitor Films	Electronic circuit insulation



Key Features

Superior Clarity: Crystal clear transparency for premium packaging low gel ratio

Excellent Barrier Properties: Outstanding moisture and gas barrier performance

High Processing Speed: Optimized for high-speed packaging lines

03 Pigment and Chemical Materials








Our comprehensive range of pigments provides superior coloring solutions for plastics, coatings, inks, and various industrial applications with excellent color strength and durability.



Technical Specifications









1. Inorganic Pigments

Inorganic pigments are known for their high durability, excellent color stability and resistance to environmental conditions. These pigments provide long-lasting performance under harsh conditions. Properties and application areas of some of our inorganic pigments are listed.

Name	Properties	Usage Area	
PBr24 (Chrome Antimony Titanium)	Bright yellowish-brown tone, high thermal stability, excellent lightfastness	Plastics, industrial coatings, ceramics, high temperature applications	
PBr29 (Chrome Iron Brown)	Rich brown tone, high chemical and thermal resistance, weather durability	Concrete coloring, paint, ceramics, building materials	
PG17 (Chrome Oxide Green)	Vibrant green color, high opacity, UV and chemical resistance	Paint, coatings, concrete, ceramics, plastics	
PG17 (Chrome Black Hematite)	Intense black tone, excellent thermal stability, chemical resistance	Industrial coatings, ceramics, high temperature applications	
PB29 (Ultramarine Blue EP 28, EP 40, EP 62, Nubix G58,SRD)	Bright blue tones, high color stability, non-toxic, different tone variations	Plastics, paint, ink, cosmetics, textiles, ceramics	
PR101 (Synthetic Iron Red Oxide 110, 110M, 130, 130M)	Red tones, high opacity, UV and weather resistance, different particle sizes	Concrete, paint, coatings, plastics, building materials	
PBk33 (Iron Manganese Oxide)	Deep brown-black tone, high thermal stability, chemical resistance	Ceramics, paint, concrete, industrial coatings	
PY42 (Yellow Iron Oxide)	Bright yellow tone, high color stability, environmentally friendly	Paint, concrete, plastics, coatings, building materials	
PBr6 (Brown Iron Oxide 640, 660, 663, 680, 686)	Rich brown tones, excellent dispersion, UV resistance	Concrete, paint, coatings, ceramics, plastics	
PBk11 (Black Iron Oxide)	Intense black color, high opacity, chemical and thermal stability	Concrete, paint, coatings, plastics, rubber	
PY184 (Bismuth Vanadate Yellow)	Vibrant yellow tone, high lightfastness, environmentally friendly, non-toxic	Automotive paints, plastics, industrial coatings	
PY53 (Nickel Antimony Titanium Yellow)	Bright yellow tone, high thermal stability, chemical resistance	Plastics, ceramics, industrial coatings, high temperature applications	

2. Organic Pigments

Properties and application areas of some of our organic pigment products are listed below. These pigments stand out with their vibrant color tones, high color strength and ease of application.

Name	Properties	Usage Area	
PY62 (Pigment Yellow 62)	Bright yellow tone, high color strength, good lightfastness, excellent dispersion	Plastics (PVC, polyolefins), paint, ink and coatings	
PBr41 (Pigment Brown 41)	Warm brown tone, high thermal stability, chemical resistance	Industrial paints, plastic coloring, decorative coatings	
PG7 (Pigment Green 7 - Phthalocyanine Green)	Vibrant green color, excellent light and solvent resistance, high opacity	Ink (flexography, gravure), paint, plastics, textile dyeing	
PB15:1, PB15:2, PB15:3 (Pigment Blue 15 - Phthalocyanine Blue)	Bright blue tones, high color strength, UV resistance, different tone variations	Ink (printing, inkjet), paint, plastics, cosmetic applications	
PR48, PR53, PR54, PR56, PR57 (Pigment Red Series)	High vibrancy in red tones, good thermal stability, solvent resistance	Ink, paint, plastics, textiles, decorative and industrial coatings	
PY110 (Pigment Yellow 110)	Vibrant yellow-reddish tone, high lightfastness, chemical resistance	Automotive paints, industrial coatings, plastics	
PBr25 (Pigment Brown 25)	Natural brown tone, high opacity, thermal stability	Paint, plastics, ceramic coatings	
PY151 (Pigment Yellow 151)	Bright yellow tone, excellent lightfastness, chemical stability	Industrial paints, plastics, decorative coatings	
PY191 (Pigment Yellow 191)	Yellow tone, high temperature resistance, good dispersion	Plastics (engineering plastics), paint, coatings	

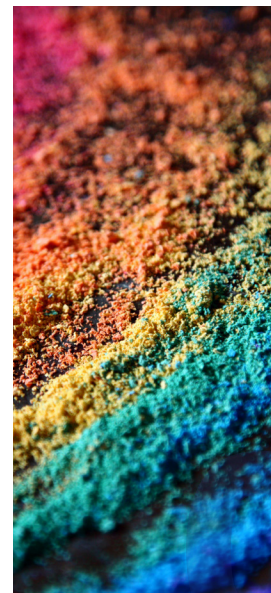


Key Features

Vibrant Colors: Wide spectrum of colors with excellent lightfastness

Industrial Strength: Durable construction for demanding applications international standards)

Eco-Friendly: Sustainable materials and production processes



04 Cardboard Core Products



Precision-engineered cardboard cores for diverse industrial applications.

Our comprehensive range of high-quality cardboard cores serves various industries including paper mills, textiles, plastic film, and specialty applications with superior strength and reliability.

Sectoral Solutions

1. Paper Mill Solutions

Features:

High-strength cores for paper and tissue manufacturing

Advantages

- High compression strength
- Moisture resistance
- Smooth surface finish

Areas of Use

- Tissue paper rolls
- Newsprint cores
- Kraft paper winding

2. Textile Industry

Features:

Specialized cores for textile and yarn applications

Advantages

- Anti-static properties
- Dimensional stability
- Chemical resistance

Areas of Use

- Yarn winding
- Fabric rolls



3. Film Applications

Features:

Precision cores for plastic film and packaging

Advantages

- Ultra-smooth surface
- Low runout tolerance
- Static-free

Areas of Use

- Plastic film winding
- Stretch film cores
- Lamination rolls

5. Tape & Label

Features:

High-precision cores for adhesive tape manufacturing

Advantages

- Excellent roundness
- Smooth unwinding
- Adhesive compatibility

Areas of Use

- Pressure Sensitive Labels
- Double-sided tape
- Label stock



4. Specialty Products

Features:

Custom solutions for unique industrial requirements

Advantages

- Custom dimensions
- Special coatings
- Enhanced strength

Areas of Use

- Carpet backing
- Industrial tapes
- Specialty films



Our Product Portfolio

- **Inner Diameter:** 17 mm – 150 mm
- **Wall Thickness:** 1.5 mm – 14 mm
- **Length:** Custom cut to customer requirements
- **Printing:** Single-color logo printing
- **Material:** High-quality, recyclable cardboard



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