



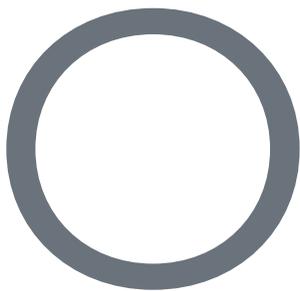
polibak

Polibak is a leading supplier of well known international companies since its foundation as a result of its total quality approach and sustainable supply chain performance.





MISSION



Our mission is to provide our customers with outstanding BOPP and CPP film products which fulfill their needs and expectations.

Our dedication to sustainability and innovation delivers the long term benefits which enable us to grow business continuously within our existing and new business partners.

ABOUT POLIBAK

Polibak located in İzmir - Turkey, is one of the leading manufacturers of BOPP and CPP films in Turkey.

Established in four separate facilities over an area of 170.000 m² in İzmir Ataturk Industrial Zone.

Polibak launched the first 10.4 m wide 3 layers BOPP line in Europe which brought an additional capacity of 60.000 tons/year and increased its total nameplate capacity to 200.000 tons/year.

In 2023, Polibak commissioned the largest, 7.2 metre wide, 5 layers CPP production line in the world and has a CPP production capacity of 18,000 tonnes with this new line.



LINE 7 (NEW)



COMPETITIVE ADVANTAGES

TECHNOLOGY LEADERSHIP

- Newest state of the art technologies
- More than 30 years of expertise and know how
- Focus on innovation and operational excellence

TAILOR MADE PRODUCTION

- Customer oriented approach with tailor made solutions
- Customer specified products with latest technologies
- Polibak is a leading supplier of well known international companies since its foundation as a result of its total quality approach and sustainable supply chain performance.



JIPM

Award Winner for TPM Operational Excellence

COMPETITIVE ADVANTAGES

Polibak is the only OPP producer in the world which implemented TPM for sustainable operational excellence.

Polibak's TPM activities started in September 2011 and resulted with JIPM (*Japan Institute of Plant Maintenance*) "Award for TPM Excellence, Category A"



FINANCIAL STABILITY

- Strong equity capital structure
- Strong financial results
- Continuous investment plans to grow the business

SUSTAINABLE HUMAN RESOURCE

- Loyal, dedicated and young team of people whom are given the chance to grow with the business
- Continuous training and development programmes for all employees



BOPP FILM CAPACITY

Polibak has 6 BOPP lines with a total nameplate capacity of 200.000 tons/year.

METALLIZATION CAPACITY

Polibak has a production capacity of 42.000 tons of metallized BOPP film per year with a portfolio of 9 metallization units.





FILM TYPES

METALLIZED FILMS

- 42.000 tons of Metallization Capacity / 9 Metallization Units
 - Suitable for single web and laminate structures for food packaging applications
 - Metallization with Plasma Treatment Technology
 - Available for heat sealable and cold seal applications

MEC Metallized Coextruded Films (*General Purpose*)

MEL Metallized Plain Films (*Cold Seal Application*)

MNE Metallized Low SIT Films

HIGH BARRIER METALLIZED FILMS

- Suitable for laminate structures for snacks and food packaging applications
 - Excellent O₂ & Moisture Barrier
 - OTR value $\leq 50 \text{ cm}^3/\text{m}^2/\text{day}$
 - WVTR value $\leq 0,3 \text{ gr}/\text{m}^2/\text{day}$

MBR High Barrier Metallized Films (*O₂ - WV barrier*)

MEC-1 High Barrier Metallized Films (*Low COF*)

MBE Metallized HB Extrusion Lamination Film

MB5 Metallized UHB Extrusion Lamination Film

VERY HIGH BARRIER METALLIZED FILMS

- Designed for ultra high barrier packaging applications with glue and extrusion lamination.
- Metal side is coated with water based chemical.
 - OTR value $<1.5 \text{ cm}^3/\text{m}^2/\text{day}$
 - WVTR value $<0.1 \text{ g}/\text{m}^2/\text{day}$

FILM TYPES

LABEL FILMS

Wrap Around Bottle Labels

- *High performance on bottling machines*

LBL1 Standard Pearlized Bottle Label Film

LBL1-P / LBL1-L Low Density Pearlized Bottle Label Film

PRLM 1 Pearlized Metallized Bottle Label Film

LNL Standard Heat Sealable Bottle Label Film

In Mould Label Films

- In mould label films are suitable for Paint Cups, Dairy Products, and Yoghurt Cups etc.
- Thickness range: From 50 up to 80 microns

PML In Mould Film (*White Opaque*)

PML-X In Mould Film (*High Yield White Opaque*)

CML In Mould Film (*Solid White*)

TML In Mould Film (*Transparent*)

TMD In Mould Film (*Matt*)

MMD In Mould Film (*Matt - Metallized*)





MATT FILMS

- Designed for snack packaging and stationary products
- Matt finish surface gives lower light reflection for easy viewing
- Enhances the brand image of the end product by delivering a luxurious feel through packaging

DULL1 Matt Lamination Film

DULL1-A Low Heat Sealable Matte Film

DULL1-R Matt Release Film (*Release film for cold seal applications with superior anti-blocking property.*)

DULL2 Matt Paper Lamination Film

FILM TYPES

WHITE FILMS

- Available for surface print and lamination application for food packaging
- High protection against light for food packaging
- Less need of white ink with whiteness property

PWH White Coextruded Film (110-140 °C)

PWH-1 White Low SIT Films (85-140 °C)

PWE White Low COF Film

PWL2 White Cold Seal Film

PEARLIZED (WHITE OPAQUE) FILMS

- High yield advantage due to low density
- Economical printing capability due to white opaque color
 - High gloss printing side

PRX Pearlized Coextruded Films

PRL Pearlized Plain Films (Cold Seal App.)

PRD High Density Opaque Film (Cold Seal App)

ICE CREAM FILMS

PRA - C High Glass ice-cream Film

PRA1 Low Density ice-cream Film

PRM Pearlized Metallized Film

RESEARCH AND DEVELOPMENT

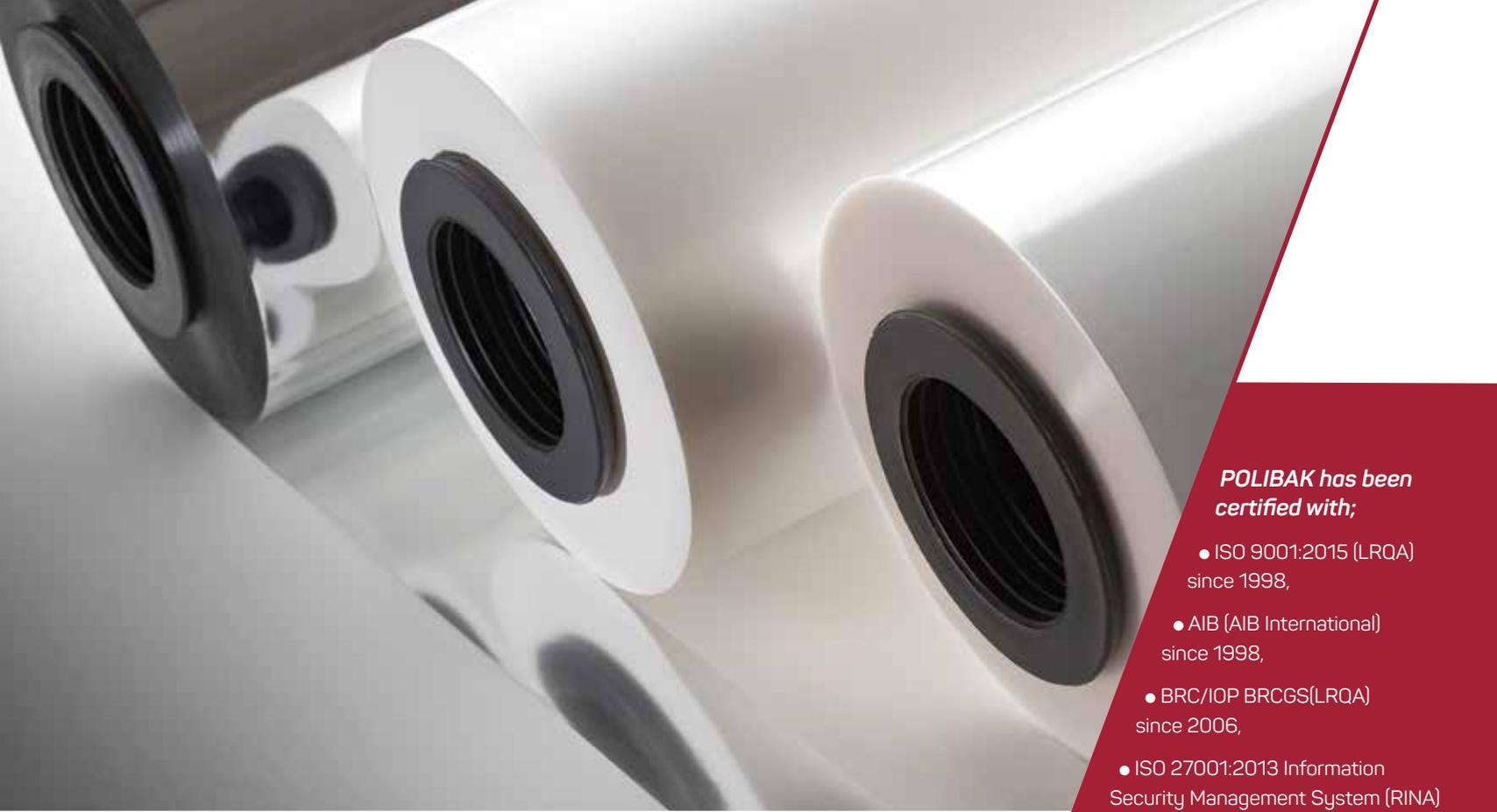
With its highly experienced and well trained R&D team, Polibak provides high quality films with a consistent performance.

Main focus areas of our R&D department are;

- Analysing film structures and properties
- Working in close relationship with raw material suppliers, converters and end-users
- Developing new advanced products for the packaging industry

In accordance with the specific requirements of the customers, R&D department works on developing new products as well as improving the performance of the existing products.





QUALITY & FOOD SAFETY

POLIBAK, with the consciousness of the sustainable approach, manages its activities towards transferring a clean and healthy environment to the next generations, using energy and natural sources in a productive way, and improving the environmental awareness of its employees together with quality, product safety, Environmental and Occupational health and safety systems. Furthermore, it complies with all national and international legal regulations and arrangements with regards to plastics in contact with food.

Documentation and continuity of all such systems are followed through the **QDMS** (*Quality Documentation Management System*).

POLIBAK has been certified with;

- ISO 9001:2015 (LRQA) since 1998,
 - AIB (AIB International) since 1998,
 - BRC/IOP BRCGS(LRQA) since 2006,
 - ISO 27001:2013 Information Security Management System (RINA) since 2016
 - ISO 14001:2015 Environmental Management System (LRQA) since 2020
 - ISCC PLUS International Sustainability & Carbon Certification (RINA) since 2021
 - ISO 50001: 2018 Energy Management System Certification (LRQA) since 2021
 - 14064-1:2018 Greenhouse Gases Verification Certification (Bureau Veritas) since 2022
 - ISO 45001: 2018 Occupational Health and Safety Management Systems Certification (LRQA) since 2022
 - ISO 10002: 2018 Customer Satisfaction and Complaints Handling Management Systems Certification (LRQA) since 2022
 - Operation Clean Sweep (OCS) Certification since 2022 (CERTILOOP)
- Polibak undergoes 3rd party audits (announced/unannounced), for the renewal of certificates every year.

SUSTAINABLE APPROACH

At Bakiöđlu Holding and Group Companies, we follow a sustainability management model based on an approach that values the climate, nature, our business, people and society. The sustainability strategy that we created to produce sustainable value in the light of our mission, vision and corporate value, is actualized through a participatory organizational structure which is created at Bakiöđlu Holding and Group Companies.

Valuing the Climate: As Bakiöđlu Holding and Packaging Group Companies, we think that climate change is a significant risk for the future of our planet and the common interest of humanity, and we take responsible approaches to prevent the impact that our operations cause. As Bakiöđlu Holding and Packaging Group Companies, while determining our management approach, practices and future goals, we take into consideration the mission of making the fight against climate change an everlasting one. For this purpose, we aim to accurately understand the impacts of our operations, products and services on climate change and reduce these as much as possible. We set our strategies and targets with this understanding, manage climate risks with a comprehensive perspective, and reduce climate impacts through practices and projects we developed following a preventative approach.

As Bakiöđlu Holding and Packaging Group Companies, we are continuous supporters of the Aegean Forest Foundation.

In consideration of the benefits provided by forests to the society, nation and the world, Polibak donates saplings to the Aegean Forest Foundation on behalf of its each employee for their special days.

For detailed information;
<http://www.egeorman.org.tr/eng/Default.aspx>



Valuing Nature: Circular economy practices, which provide significant advantages in terms of raw material efficiency and the control of environmental impacts arising from consumption, not only help in combat against major environmental problems such as climate, biodiversity and air pollution, but also offer economic opportunities. At Bakioglu and Group Companies, we consider it a sectoral mission to offer recyclable packaging alternatives from bio-based materials and to conduct studies to produce lower weight and lower volume packages, and we carry out research and investment activities in this regard. We select the raw materials we use in our production from recyclable, environmentally friendly raw materials. In this regard, all our Group Companies adopt a circular economy approach and seize the opportunity to use recycled, reclaimed, bio-based raw materials and supplies with low environmental impact in comparison to their counterparts.

Valuing Our Business: As Bakiöđlu Holding and Packaging Group Companies, we provide services for a large customer portfolio with different expectations and qualifications, from mid-market local businesses to multinational foundations, with our strong technology infrastructure and experience. While we offer our products and services in product groups where sterility is important, such as hygiene, stationery and textile products, in addition to product groups with sensitive reliability requirements such as food, our main focus is always on the safe use of our customers' products by consumers. In this sense, we work to increase our service quality by making improvements in our business processes as well as our products, and by conducting activities related to compliance with national and international standards.

Valuing People: The source of the quality level we have attained in the development process we have carried out over the years and in every new project we have implemented, and also the source of the success level we have achieved in the capacity to constantly improve our market presence is the labor and dedication of our employees. For this reason, we consider our employees as a driving force that will make our success permanent in the future. In this regard, we provide our employees with a peaceful working environment where diversity and inclusiveness are respected and where development is supported.

Valuing the Society: As Bakiöđlu Holding, we aim to increase the added value we created in society by carrying out studies in social development areas alongside our main field of activity. In this context, as Bakiöđlu Holding and Group Companies, we develop projects together with various stakeholder groups, especially non-governmental organizations, public institutions and organizations, and also support similar social development activities that are created outside our companies. In this regard, we focus more on environment and education fields with our social project and sponsorship activities.

SHAREHOLDERSHIP



CEFLEX: CEFLEX is a joint venture of a European companies and associations consortium representing the complete value chain of flexible packaging to improve the performance of flexible packaging in the circular economy. Bringing together organizations operating in different areas of expertise within flexible packaging production processes, the initiative aims to improve the performance of flexible packaging in the circular economy, increase resource efficiency and reduce waste. Being a member of CEFLEX, Polibak undertakes significant initiatives contributing to the circular economy.



Sedex (Supplier Ethical Data Exchange): Sedex is one of the world's leading ethical trade membership organizations working with businesses to improve the working conditions for the global supply chain. It offers an online platform, tools and services that help businesses operate responsibly and sustainably, protecting their employees and obtaining their resources ethically. Polibak shares information with its clients via Sedex.



Flexible Packaging Manufacturers Association (FASD): FASD, which is among the leading representatives of the Turkish Flexible Packaging Industry, aims to develop the flexible packaging industry in Turkey as a whole and to create the appropriate environment and conditions to ensure that the manufacturing companies in the sector become among the leading suppliers of the world market. Polibak is a member of FASD.



EcoVadis: EcoVadis allows companies to be assessed in a holistic manner in terms of sustainability through a global platform. Each company is evaluated on significant issues specific to its size, position and industry. The evaluations cover a wide range of non-financial management systems, including impacts on Environment, Labor and Human Rights, Ethics and Sustainable Procurement. Polibak is registered in the EcoVadis system and is awarded with a Bronze Medal.

BIAXIALLY ORIENTED POLYPROPYLENE FILMS (BOPP)

COEXTRUDED FILMS

LNC : COEXTRUDED FILM

One side treated, both sides heat sealable coextruded film.

LNCS : COEXTRUDED LOW COF FILM

One side treated, both sides heat sealable coextruded film with low COF for high speed packaging machines.

LNF : COEXTRUDED HIGH SURFACE ENERGY FILM

One side high surface energy treated, other side heat sealable coextruded film.

LNS : COEXTRUDED HIGH COF FILM

One side treated, both sides heat sealable coextruded film high COF where low slip is required.

LNE : COEXTRUDED LOW SIT FILM

One side treated and heat sealable, other side low temperature heat sealable coextruded film for high speed packaging machines.

LNB : COEXTRUDED BAG FILM

One side treated, both sides heat sealable coextruded film for bag manufacture and microperforation.

PLAIN FILMS

PL1 : PLAIN FILM

One side treated, non heat sealable plain film.

PL2 : PLAIN FILM

Both sides treated, non heat sealable plain film.

PLX : RELEASE FILM

One side treated, non heat sealable, release film.

PLF : PLAIN HIGH SURFACE ENERGY FILM

One side high surface energy treated, non heat sealable release film.

MATT FILMS

DULL1 : MATT LAMINATION FILM

One side treated, other side heat sealable matt film.

DULL2 : MATT PAPER LAMINATION FILM

Both sides treated, non heat sealable matt film.

DULL1-R : MATT RELEASE FILM

One side treated, non heat sealable release matt film.

DULL1-A : MATT LOW SIT FILM

One side treated, other side low temperature heat sealable matt film.

HOTTACK FILMS

LNZ : COEXTRUDED HIGH HOTTACK FILM

One side treated and heat sealable, other side sealing at very low temperature and offering high hottack performance coextruded film for high speed packaging machines.

MNZ : METALLIZED HIGH HOTTACK FILM

One side treated, other side sealing at very low temperature and offering high hottack performance metallized film for high speed packaging machines.

PWZ : WHITE HIGH HOTTACK FILM

One side treated and heat sealable, other side sealing at very low temperature and offering high hottack performance white film for high speed packaging machines.

PRMZ : PEARLIZED METALLIZED HIGH HOTTACK FILM

One side treated and heat sealable, other side sealing at very low temperature and offering high hottack performance pearlized metallized film for high speed packaging machines.

PRDZ : OPAQUE HIGH HOTTACK FILM

One side treated and heat sealable, other side sealing at very low temperature and offering high hottack performance high density opaque film for high speed packaging machines.

POLY-N FILMLER

An eco-friendly solution with the decomposition of films in landfill conditions while generating methane which is a renewable energy source. This technology can be applied to all types of products.

PEARLIZED FILMS

PRX : PEARLIZED COEXTRUDED FILM

One side treated, both sides heat sealable pearlized film.

PRL : PEARLIZED COLD SEAL FILM

One side treated, both sides heat sealable pearlized film.

PRA-C : OPAQUE FILM

One side treated, both sides heat sealable high gloss opaque film for ice-cream.

PRA-C1 : LOW DENSITY OPAQUE FILM

One side treated, other side low temperature heat sealable, high gloss, low density opaque film for ice-cream.

PRD : HIGH DENSITY OPAQUE FILM

One side treated gloss opaque film with high density, suitable for cold seal applications.

WHITE PIGMENTED FILMS

PWH : WHITE COEXTRUDED FILM

One side treated, both sides heat sealable white pigmented film.

PWL2 : WHITE COLD SEAL FILM

Both sides treated, white pigmented film for cold seal applications.

PWH1 : WHITE LOW COF FILM

One side treated, both sides heat sealable white film with low COF for high speed machines.

PWE : WHITE LOW SIT FILM

One side treated and heat sealable, other side low temperature heat sealable white film.

METALLIZED FILMS

MEC : METALLIZED COEXTRUDED FILM

One side treated, other side heat sealable metallized film for general purpose.

MEL : METALLIZED COLD SEAL FILM

Both sides treated, metallized film for cold seal applications.

MNE : METALLIZED LOW SIT FILM

One side treated, other side low temperature heat sealable metallized film for high speed machines.

MBR : METALLIZED HIGH BARRIER FILM

One side treated, other side low temperature heat sealable metallized film for high speed machines.

MEC1 : METALLIZED HIGH BARRIER FILM

One side treated, other side heat sealable low COF, high barrier metallized film.

MEC1-F : METALLIZED HIGH SURFACE ENERGY FILM

One side high surface energy treated, other side heat sealable, low COF metallized BOPP film with high barrier properties.

MBE : METALLIZED HB EXTRUSION LAMINATION FILM

One side treated, other side wide range heat sealable, high barrier metallized film for extrusion lamination applications.

MBS : METALLIZED UHB EXTRUSION LAMINATION FILM

One side treated, other side wide range heat sealable, ultra high barrier metallized film for high speed extrusion lamination applications.

PRM : PEARLIZED METALLIZED FILM

One side treated and metallized, other side heat sealable pearlized film.

PRM-L : PEARLIZED METALLIZED VERY HIGH DENSITY FILM

One side treated and metallized, other side heat sealable, very low density pearlized film for soup cube packaging.

ULTRA HIGH BARRIER ILC FILMS

C1-MB : METALLIZED UHB ILC FILM

One side treated, ILC (In Line Coated) and metallized, other side sealing at low temperature, able to replace non-recyclable films with its ultra high barrier property.

C1-ML : METALLIZED UHB ILC FILM

One side treated, other side treated and ILC (In Line Coated) and metallized, able to replace non-recyclable films with its ultra high barrier property.

BIO RENEWABLE FILMS

Films produced with sustainable raw material which originates from biobased and renewable sources. This technology can be applied to all types of products.

WRAP AROUND LABEL FILMS

LBL1 : WHITE OPAQUE LABEL FILM

One side treated, non heat sealable high gloss opaque film for wrap around label.

LBL1-P : WHITE OPAQUE LOW DENSITY LABEL FILM

One side treated, non heat sealable low density opaque film for wrap around label.

LBL1-L : WHITE OPAQUE VERY LOW DENSITY LABEL FILM

One side treated, non heat sealable very low density opaque film for wrap around label.

PRLM1 : PEARLIZED METALLIZED LABEL FILM

One side treated and metallized, non heat sealable opaque film for wrap around label.

MLB : METALLIZED LABEL FILM

One side treated, non heat sealable metallized film for bag wrap around label.

LNL : TRANSPARENT LABEL FILM

One side treated, non heat sealable transparent film for wrap around label.

IN MOULD LABEL FILMS

PML : PEARLIZED LOW DENSITY IML FILM

Both sides treated, one side matt pearlized film with low density for in mould labels.

PML-X : PEARLIZED IML FILM

Both sides treated, one side matt pearlized film for in mould labels.

CML : WHITE IML FILM

Both sides treated, one side matt white pigmented film for in mould labels.

TML : TRANSPARENT IML FILM

Both sides treated, transparent film for in mould labels.

TMD : MATT TRANSPARENT IML FILM

Both sides treated, matt transparent film for in mould labels.

SELF ADHESIVE (PRESSURE SENSITIVE) LABEL FILMS (SAL-PSL)

PHL : PEARLIZED LOW DENSITY LABEL FILM

One side treated, non heat sealable, low density pearlized film for self adhesive labels.

PHL-X : PEARLIZED LABEL FILM

Both sides treated, non heat sealable pearlized film for self adhesive labels.

CML-F : WHITE LABEL FILM

Both sides treated, non heat sealable white pigmented film for self adhesive labels.

TML : TRANSPARENT LABEL FILM

Both sides treated, non heat sealable transparent film for self adhesive labels.

MML : METALLIZED LABEL FILM

Both sides treated, non heat sealable metallized film for self adhesive labels.

ANTIFOG FILMS

AFP : ANTIFOG FILM

Both sides treated and heat sealable, one side antifog, transparent film suitable for fresh fruit/vegetable packaging.

HIGH SEAL STRENGTH (HSS) FILMS

MBX: METALLIZED HSS and HIGH BARRIER FILM

One side treated, other side low temperature heat sealable with high seal strength, no leakage by hermetic sealing, high barrier metallized film.

MBS-X: METALLIZED HSS and UHB EXTRUSION LAMINATION FILM

One side treated, other side low temperature heat sealable with high seal strength, no leakage by hermetic sealing, ultra high barrier metallized film for high speed extrusion lamination applications.

MBX-A: METALLIZED HSS and UHB FILM for MONOLAYER

One side treated, other side low temperature heat sealable with high seal strength, no leakage by hermetic sealing, ultra high barrier metallized film for monolayer applications.

PCR (POST CONSUMER RECYCLED) FILMS

This product group is produced with sustainable raw material which is obtained from post consumer recycled sources by chemical recycling technology. This technology can be applied to all types of products.

CAST POLYPROPYLENE FILMS (CPP)

NON ORIENTED POLYPROPYLENE FILMS (CPP)

TRANSPARENT FILMS

CPP115 : TRANSPARENT FILM

One side heat sealable, other side treated, non oriented polypropylene film.

CPP105 : LOW SIT TRANSPARENT FILM

One side low temperature heat sealable, other side treated, non oriented polypropylene film.

CPP095 : VERY LOW SIT TRANSPARENT FILM

One side very low temperature heat sealable, other side treated, non oriented polypropylene film.

CPP130 : DECORATIVE FILM

Both sides heat sealable, one side treated, non oriented polypropylene film for flower and gift wrapping applications.

CPP140 : BAG AND BREAD FILM

Both sides heat sealable, one side treated, non oriented polypropylene film for bag and bread packaging.

CPP340 : BAG AND BREAD FILM FOR COLD CLIMATE

Both sides heat sealable, one side treated, non oriented polypropylene film for bag and bread packaging to use in winter conditions.

HIGH SEAL STRENGTH (PE REPLACEMENT) CPP FILMS

CPP205 : LOW SIT HIGH SEAL STRENGTH FILM

One side low temperature heat sealable, other side treated, non oriented high seal strength polypropylene film.

CPP205-M : LOW SIT HIGH SEAL STRENGTH METALLIZED FILM

One side low temperature heat sealable, other side treated and metallized, non oriented high seal strength polypropylene film.

CPP295 : VERY LOW SIT HIGH SEAL STRENGTH FILM

One side very low temperature heat sealable, other side treated, non oriented high seal strength polypropylene film.

CPP295-P : VERY LOW SIT HIGH SEAL STRENGTH PUNCTURE RESISTANT FILM

One side very low temperature heat sealable with high seal strength, other side treated, puncture resistant non oriented polypropylene film.

CPP285-P : ULTRA LOW SIT HIGH SEAL STRENGTH PUNCTURE RESISTANT FILM

One side ultra low temperature heat sealable with high seal strength, other side treated, puncture resistant non oriented polypropylene film.

METALLIZED CPP FILMS

CPP415 : METALLIZED FILM

One side heat sealable, other side treated and high barrier metallized, non oriented polypropylene film.

CPP405 : LOW SIT METALLIZED FILM

One side low temperature heat sealable, other side treated and high barrier metallized, non oriented polypropylene film.

CPP415-E : EASY OPEN METALLIZED FILM

One side heat sealable, other side treated and high barrier metallized, easy open non oriented polypropylene film.

DART RESISTANT & FROZEN FOOD CPP FILMS

CPP315 : DART RESISTANT AND FROZEN FOOD FILM

One side heat sealable, other side treated, non oriented polypropylene film for deep freeze application. It is also suitable for bag applications where dart resistance is required.

CPP395 : VERY LOW SIT DART RESISTANT AND FROZEN FOOD FILM

One side very low temperature heat sealable, other side treated, non oriented polypropylene film for deep freeze application. It is also suitable for bag applications where dart resistance is required.

RETORT CPP FILMS

CPP535 : RETORT FILM

One side heat sealable, other side treated, non oriented polypropylene film for full retort applications.

PEELABLE CPP FILMS

CPP715 : PEELABLE FILM

One side treated, other side peelable against PP and itself, non oriented polypropylene film.

WHITE CPP FILMS

CPP615 : WHITE PIGMENTED FILM

One side heat sealable and other side treated, solid white non-oriented polypropylene film.

CPP605 : LOW SIT WHITE PIGMENTED FILM

One side low temperature heat sealable, other side treated, solid white non-oriented polypropylene film.



polibak

POLİBAK PLASTİK FİLM SANAYİ ve TİCARET A.Ş.

Address: Atatürk Organize Sanayi Bölgesi 10000 Sokak No: 4
35620 Çiğli - İzmir / TÜRKİYE
Phone: +90(232) 376 79 70
Fax: +90(232) 376 77 30
E-Mail: info@polibak.com.tr
Sales: sales@polibak.com.tr
www.polibak.com.tr

bakioğlu
HOLDING

