



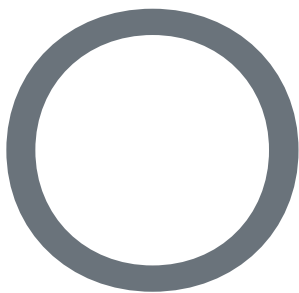
polibak

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 three separate facilities over an area of 150.000 m² in İzmir Ataturk Industrial Zone.

Polibak launched the first 10.4 m wide 5 layers BOPP line in Europe which brought an additional capacity of 50.000 tons/year and increased its total nameplate capacity to 180.000 tons/year.



LINE 6 (NEW)



COMPETITIVE ADVANTAGES

TECHNOLOGY LEADERSHIP

- Newest state of the art technologies
- More than 28 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

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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 180.000 tons/year.

METALLIZATION CAPACITY

Polibak has a production capacity of 36.000 tons of metallized BOPP film per year with a portfolio of 8 metallization units.





FILM TYPES

METALLIZED FILMS

- 36.000 tons of Metallization Capacity / 8 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

ULTRA HIGH BARRIER METALLIZED FILMS

- Designed for ultra high barrier packaging applications with adhesive and extrusion lamination
- Metal side is In Line Coated with water based chemical
 - OTR value $<1,5 \text{ cm}^3/\text{m}^2/\text{day}$
 - WVTR value $<0,1 \text{ gr}/\text{m}^2/\text{day}$

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 Transparent Label Film

MLB Metallized 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-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 COF Film

PWE White Low SIT Films (85-140 °C)

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.)

PRD-E High Density and Low SIT Opaque Film

ICE CREAM FILMS

PRA - C High Glass ice-cream Film

PRA1 Low Density ice-cream Film

PRM Pearlized Metallized Film

RESEARCH AND DEVELOPMENT

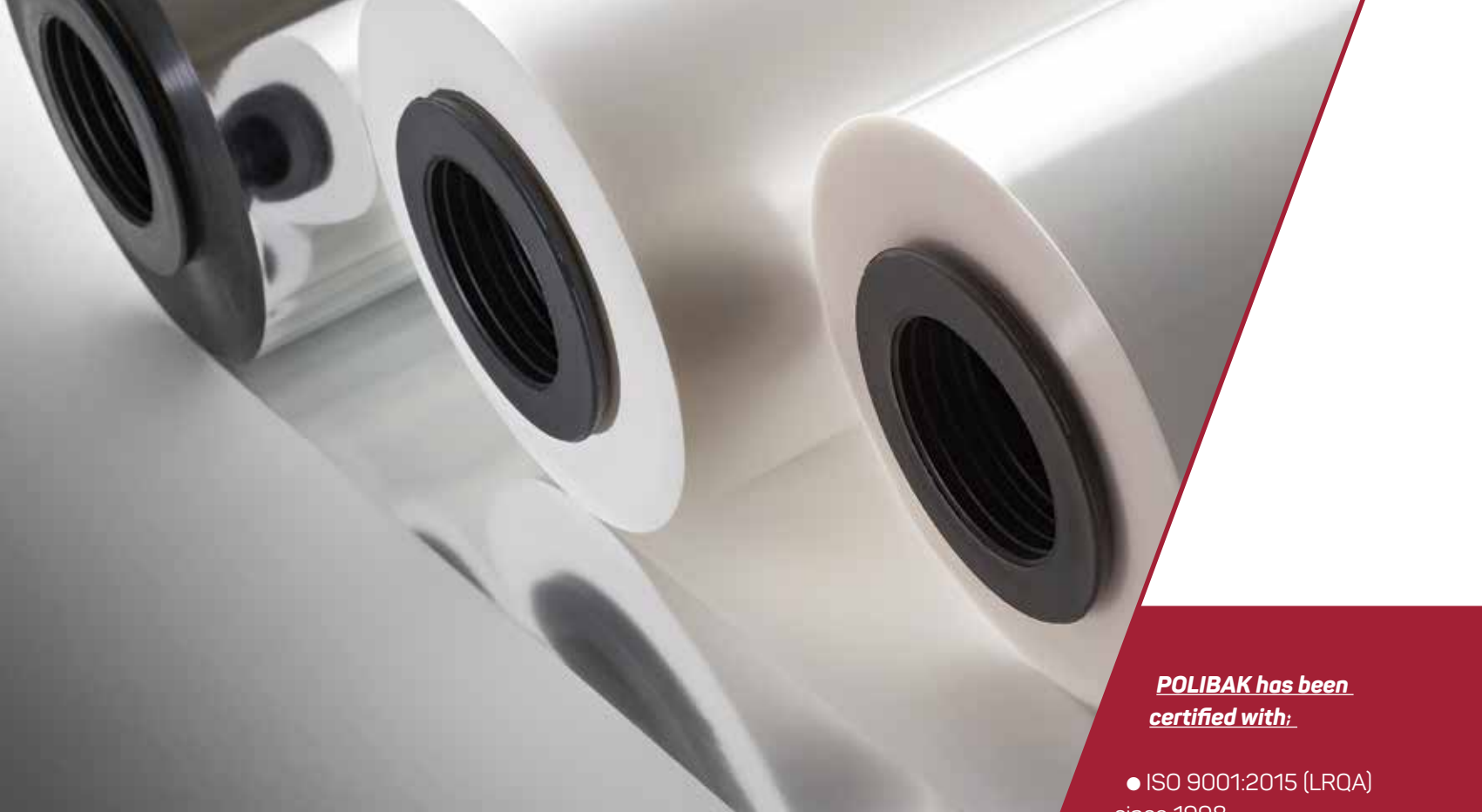
With its highly experienced and well trained R&D team, Polibak provides high quality films with a consistent performance.

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 (INTERTEK) since 2021

Polibak undergoes 3rd party audits (announced/unannounced), for the renewal of certificates every year.

SUSTAINABILITY

CDP (CARBON DISCLOSURE PROJECT)

CDP is the only independent international organization that reports the management of climate change risks by the companies. Declaration of the emission of greenhouse gases and climate change strategies makes the companies to put target for the carbon emissions and working to achieve them.

POLİBAK has been a member of CDP since 2010 and working to decrease the greenhouse gas emissions.

AEGEAN FOREST FOUNDATION

Sustainability for next generations.

Polibak is a major sponsor 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>



SEDEX (SUPPLIER ETHICAL DATA EXCHANGE)

SEDEX is a non-profit, web based organization which is located in London. This system provides for suppliers to manage social and ethical information and share them with customers, to monitor and manage the problems in their supply chain and to access the international resources about ethical trading. POLİBAK has been sharing information as a B-type member with their customer since 2010.

CEFLEX

CEFLEX is the collaborative initiative of a European consortium of companies representing the entire value chain of flexible packaging. Polibak is proud to contribute to the circular packaging economy with its CEFLEX membership.

BIAXIALLY ORIENTED & NON ORIENTED POLYPROPYLENE FILMS (BOPP & CPP)

COEXTRUDED FILMS

LNC: COEXTRUDED FILM

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

LNC1: COEXTRUDED LOW COF FILM

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

LNF : COEXTRUDED FLAME TREATED FILM

Flame treated, heat sealable coextruded film.

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.

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.

CPP FILMS

CPP 110: CPP FILM

One side treated, both sides heat sealable CPP film.

CPP 310: CPP TEAR RESISTANT FILM

One side treated, both sides heat sealable high tear resistant CPP film.

CPP 625: WHITE CPP FILM

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

PEARLIZED FILMS

PRX: PEARLIZED COEXTRUDED FILM

One side treated, both sides heat sealable pearlized film.

PRL: PEARLIZED COLD SEAL FILM

Both sides treated, pearlized film for cold seal applications.

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, both sides heat sealable, also suitable for cold seal applications, high density, gloss opaque film.

PRM: PEARLIZED METALLIZED FILM

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

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 LAMINATION FILM

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

MEC1: METALLIZED HIGH BARRIER FILM

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

MBE: METALLIZED HB EXTRUSION LAMINATION FILM

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

MB5: 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.

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 HIGH YIELD LABEL FILM

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

LBL1-L: WHITE OPAQUE VERY HIGH YIELD LABEL FILM

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

PRLM1: PEARLIZED METALLIZED LABEL FILM

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

MLB: METALLIZED LABEL FILM

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

LNL: TRANSPARENT LABEL FILM

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

IN MOULD LABEL FILMS

PML: PEARLIZED IML FILM

Both sides treated, one side matt pearlized film with very high yield for in mould labels.

PML-X: PEARLIZED IML FILM

Both sides treated, one side matt pearlized film with high yield 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 LABEL FILMS

PHL: PEARLIZED LABEL FILM

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

PWS: 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.

POLY-N FILMS

LNC-N: COEXTRUDED ECO FRIENDLY FILM

One side treated, both sides heat sealable coextruded film which degrades faster in landfill after disposal.

MEC-N: METALLIZED ECO FRIENDLY FILM

One side treated, both sides heat sealable metallized film which degrades faster in landfill after disposal.

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.

MB5-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.



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