policak

MISSION



business partners.





ur 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



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

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

• Customer oriented approach with tailor made solutions • Customer specified products with latest technologies • Polibak is a leading supplier supply chain performance.

of well known international companies since its foundation as a result of its total quality approach and sustainable

TECHNOLOGY LEADERSHIP

TAILOR MADE PRODUCTION

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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 Exellence, 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

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Polibak has 6 BOPP lines with a total nameplate

BOPP FILM CAPACITY

capacity of 200.000 tons/year.

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METALLIZATION CAPACITY

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





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MEC Metallized Coextruded Films (General Purpose) MEL Metallized Plain Films (Cold Seal Application) MNE Metallized Low SIT Films

MBR High Barrier Metallized Films (02 - 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 cm³/m²/day
 - WVTR value <0.1 g/m²/day

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

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 $\leq 0.3 \text{ gr/m}^2/\text{day}$



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)



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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

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
 - **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



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

• High gloss printing side

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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.





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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).



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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 (LROA) 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.

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SUSTAINABLE APPROACH

At Bakioğlu 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 Bakioğlu Holding and Group Companies.

> Valuing the Climate: As Bakioğlu 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 Bakioğlu 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 Bakioğlu 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 Bakioğlu 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 Bakioğlu Holding and Packaging Group Companies, we provide services for a large customer portfolio with different expectations and qualifications, from midmarket 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 Bakioğlu 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 Bakioğlu 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

CDP CDP (Carbon Disclosure Project): CDP is the only independent international organization that globally reports the way the climate change risks are managed by the companies. Thanks to disclosure of greenhouse gas emissions and climate change strategies to the public and investors through CDP, companies and governments can now improve their performance by targeting carbon emission reductions. Polibak has been doing CDP reporting for supply chain research since 2010. Polibak has been assessed in Climate Change research in 2022 and is awarded with C-level.

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.

Sedev

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.

(FASD) esnek ambalaj Navicileaj deaneĝi

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 appopriate 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: 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.

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BIAXIALLY ORIENTED POLYPROPYLENE FILMS (BOPP)

COEXTRUDED FILMS

LNC : COEXTRUDED FILM

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 machine

LNE - COEXTRUDED HIGH SURFACE ENERGY FILM One side high surface energy treated, other side hea alable coextruded film.

INS COEXTRUDED HIGH COF FILM One side treated, both sides heat s high COF where low slip is required

LNE : COEXTRUDED LOW SIT FILM One side treated and heat sealable, other side low emperature heat sealable coextruded film for high

LNB : COEXTRUDED BAG FILM ne side treated, both sides heat sealable o ovtrudod film for baa manufacture and microperforation

PLAIN FILMS

PL1: PLAIN FILM

PL2: PLAIN FILM

ed. non heat sealable olain film PLX : RELEASE FILM . eat sealable, release film

PLF : PLAIN HIGH SURFACE ENERGY FILM

MATT FILMS

DULL1: MATT LAMINATION FILM One side treated, other side heat sealable matt film DULL2 : MATT PAPER LAMINATION FILM

Roth sides treated non heat sealable matt film DULL1-R : MATT RELEASE FILM o mott film

DULL1-A : MATT LOW SIT FILM One side treated, other side low temperature heat sealable

HOTTACK FILMS

LNZ : COEXTRUDED HIGH HOTTACK FILM One side treated and heat sealable, other side sealing at very low temperature and offerina high hottack performance coextruded film for hiah speed packaaina machines.

MNZ · METALLIZED HIGH HOTTACK EILM One side treated, other side sealing at very low temperature nd 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 perform 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 performanc earlized metallized film for high speed packaging machines.

PRDZ: OPAQUE HIGH HOTTACK FILM One side treated and heat sealable, other side sealing at very ow temperature and offering high hottack perform high density opaque film for high speed packaging machines

POLY-N FILMLER

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

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PEARLIZED FILMS PRX : PEARLIZED COEXTRUDED FILM

nearlized 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

aloss opaaue film for ice-cream PRA-C1 · LOW DENSITY OPAQUE FILM

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

PRD: HIGH DENSITY OPAQUE FILM One side treated aloss opaque film with high density. suitable for cold seal applications.

WHITE PIGMENTED FILMS

PWH · WHITE COEXTRUDED FILM One side treated, both sides heat sealable whit piamented film

PWL2 : WHITE COLD SEAL FILM ted film for cold Both sides treated, white piame 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 tallized film for general pu 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 hea 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 machine MEC1: METALLIZED HIGH BARRIER FILM

One side treated, other side heat sea low COF, high barrier metallized film. MEC1-E · 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.

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.

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-recuclable films with its ultra hiah barrier propertu.

C1-ML : METALLIZED UHB ILC FILM

One side treated, other side treated and ILC (In Line Coated) and metallized, able to replace non-recuclable 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 wran 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 sealab opaque film for wrap around label

PRLM1: PEARLIZED METALLIZED LABEL FILM One side treated and metallized, non l opaque film for wrap around label

MLB: METALLIZED LABEL FILM izod film for One side treated, non heat sec for bag wrap around label.

LNL : TRANSPARENT LABEL FILM rent 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 nsity 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.

TMI · TRANSPARENT IMI EILM Both sides treated, transparent film for in mould labels

TMD · MATT TRANSPARENT IMI FILM Both sides treated, matt transparent film for in mould labels

ELF 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 labe

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

CML-F: WHITE LABEL FILM

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

TML : TRANSPARENT LABEL FILM Both sides treated, non heat sealable transparent film for self adhesive labels

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

ANTIFOG FILMS

AFP : ANTIFOG FILM oth sides treated and heat sealable, one side antifoq, transparent film suitable for fresh fruit/vegetable packaging.

FILMLER (CPP)

NON ORIENTED POLYPROPYLENE FILMS (CPP)

TRANSPARENT FILMS

CPP115 : TRANSPARENT FILM ed, non oriented polypropylene filn heat sealable, other side tre

CPP105 · LOW SIT TRANSPARENT FILM

One side low temperature heat sealable, other side treated, non oriented polypropulene film. CPP095 : VERY LOW SIT TRANSPARENT FILM One side very low temperature heat sealable, other side treated, non oriented polypropulene film

CPP130 : DECORATIVE FILM

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

CPP140 : BAG AND BREAD FILM h 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 polypropyle

film for baa and bread packaging to use in winter conditions.

IIGH SEAL STRENGTH (PE REPLACEMENT) CPP FILMS

CPP205 : LOW SIT HIGH SEAL STRENGTH FILM

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

CPP205-M : LOW SIT HIGH SEAL STRENGTH METALLIZED FILM One side low temperature heat se zed non oriented high sea hle other side treated and strength polypropylene film.

CPP295 : VERY LOW SIT HIGH SEAL STRENGTH FILM One side very low t ther side treated, non ori oolypropylene film

CPP295-P : VERY LOW SIT HIGH SEAL STRENGTH PUNCTURE RESISTANT FILM ne side very low temperature heat sealable with high seal strength, other side treated, punctur sistant non oriented polupropulene 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, punctur nt non oriented polypropylene film.



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POLIBAK PLASTIK FILM SANAYI ve TICARET A.Ş.

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