

# bareks



**Extrusion meets sustainability**

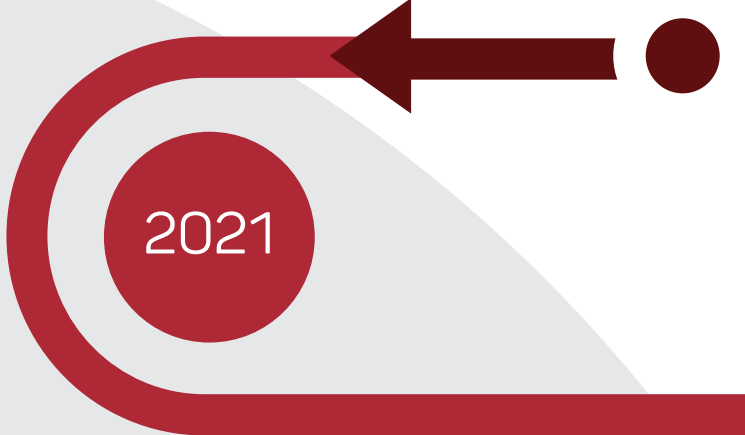
# ***ABOUT US***





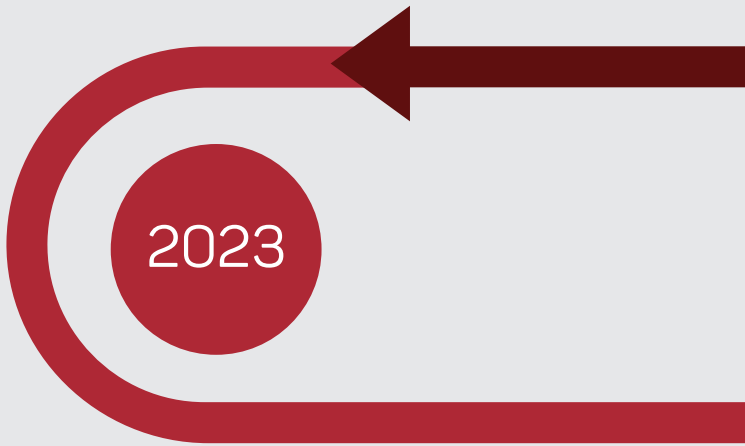
- Established in **2002**
- Total operation area **40.000 m<sup>2</sup>**
- **2 plants** in different locations:  
İzmir Atatürk Industrial Zone  
and İzmir Free Zone
- **53.000 TPA**  
Production capacity
- **9 co-extrusion lines**  
with 3 & 5 Layers PE Production
- **Up to 2600 mm**  
Production width
- **From 20 μ up to 200 μ**  
Production thickness
- Producer of multi-layer  
PE films especially for lamination:  
**Mainly for Food Applications**
- State of the art technologies:  
Production lines from  
**Windmoeller & Hoelscher**
- Focuses on **circular economy**  
and **sustainability**
- **Awarded for TPM Excellence**

# MILESTONES



Following the installation of the **Windmoeller & Hoelscher 5-layer PE** film blowing extrusion line, the investment in the **MDO PE** line has been commissioned, allowing for the realization of **100% recyclable** flexible packaging.

2021



RecyClass Recycled Content Traceability Certificate was successfully obtained. Our **Bareks polyethylene factory** has successfully obtained **ISO 50001 Energy Management System** certification.

2023



A dark red horizontal line with three small circles on the left, ending in a large circular loop containing the year 2002.

2002

Bareks was established as subsidiary company of **Bakiođlu Holding Co.** and it has started to manufacture multilayer Polyethylene Films in its first **2.000 m<sup>2</sup>** factory located in Atatürk Organized Industrial Zone.

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2022

The installation of the Reifenhauer 3-layer PE film blowing extrusion line.

Through the **Solar Energy System** installed on the roof of the **Bareks polyethylene factory**, approximately 800 tons of CO<sup>2</sup> emissions were prevented annually by using renewable energy in production.

Maintained the I-REC certificates.

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2025

At the **Bareks polyethylene plant**, the Company earned the **Bronze Medal** from **EcoVadis**, a global evaluator of organizations' environmental, labor, and human rights, ethical, and sustainable procurement practices.

# We Protect Our Future...



RecyClass



BRGS



ISO 9001:2015  
ISO 14001:2015  
ISO 45001:2018  
ISO 50001:2018  
ISO14064-1:2018



Sedex®



bareks

# GENERAL PRODUCT PORTFOLIO

1. **Multi-Purpose** Applications
2. **PET Food** Applications
3. **Frozen Food** Applications
4. **Peelable (PE-PE Peelable) & Lidding Film (Universal Peelable)** Applications
5. **Ultra Low SIT PE** Applications
6. **Easy Tear** Applications
7. **Wet Wipe** Applications
8. **Sanitary and Hygiene** Applications
9. **Blown PP for Retord** Applications
10. **Labels** Applications
11. **Anti-Fog** Applications
12. **High Gloss PE for Bread Bag & Pasta (CPP Replacement)** Applications
13. **Cereal** Applications (Bag-in Box-Milkylook)
14. **Paperlike** Applications
15. **Colour Pigmented** Applications (Black, Blue, Green etc.)
16. **Unprinted PET/PE**





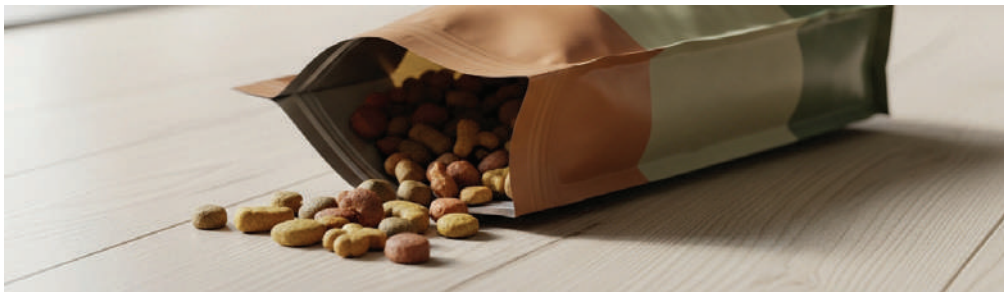
## Multi-Purpose Applications



Tailor-made solutions for a wide range of multi-purpose applications, including coffee, dry and fresh foods, non-barrier cheese packaging, doypacks, granulated and powder products, liquid packaging, as well as high-COF and low-COF film applications.



## PET Food Applications



Pet food applications are fully compatible with pouch-making lines, supporting features such as handles, zipper systems, hooded sliders, and a variety of lamination structures.



## Anti-Fog Applications



This solution minimizes moisture and fog formation on the surface of the top film, ensuring clear and consistent product visibility.

By preventing condensation, it helps maintain an attractive shelf appearance and allows consumers to easily view the product. Improved visibility also supports better product presentation and enhances overall packaging performance.

## Cereal Applications



Specialty films for cereal liner applications are designed to provide easy-open (burst peel) functionality and a milky appearance.

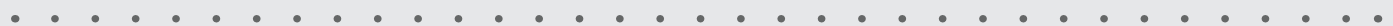
The water vapor transmission rate (WVTR) can be adjusted upon request to meet specific performance requirements.



## Frozen Food Applications



Frozen food applications with high crack & puncture resistance against sharp edged ingredients in especially lower temperatures.



## Peelable & Lidding Film Applications



Perfect solutions for easy peel and universal peel applications with a great benefit to end users. PE-PE sealing characteristic provides a wide availability of customizing peel strength and sealing in also lower temperatures.

Universal peel films offer easy peel solutions provides wide range of peelability from different kind of trays such as PET, PS, PVC, PET and PP.

# Easy Tear Applications



Suitable solutions are available for all Easy Tear applications, tailored to the end user’s production lines (VFFS / HFFS) and specific product design requirements.

Tear resistance can be precisely adjusted in either the machine direction (MD) or transverse direction (TD) as required.



# Paperlike Applications



Paperlike film solutions combine years of experience and technical know-how to deliver a paper-like feel along with grease and oil resistance.



# Wet Wipes Applications



A comprehensive product range is available for wet wipe applications, tailored to different formulations containing alcohol or aggressive chemicals.

These solutions offer a variety of hot-tack and heat-seal temperature options to meet specific processing and performance requirements.

## Sanitary and Hygiene Applications



Sanitary and hygiene packaging solutions are available with easy-tear options in both MD and TD, and are suitable for heavy-duty bags requiring high dart drop and puncture resistance.

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## Colour Pigmented Applications (Black, Blue, Green etc.)



A wide range of colored solutions is also available to suit different applications, including black, blue, white, yellow, and many other nature-inspired colors.

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## Unprinted PET/PE



PET/PE laminated lidding film solutions are available for PP, PET, PS, and PE trays, with optional easy-peel, lock-seal, and anti-fog features upon request.

## High Gloss PE for Bread Bag & Pasta Applications (CPP Replacement)



A special formulation has been developed specifically for bread bag and pasta applications, delivering excellent clarity and high gloss with superior puncture resistance compared to CPP.

It enables coating-free lap sealing with OPP and ensures strong A/B heat seal performance.

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## Ultra Low SIT PE



Bareks' unique PE formulation enables sealing at an ultra-low 75–80°C, significantly reducing energy costs and boosting line efficiency. It ensures excellent seal integrity even in powder-filling applications.

It is an ideal sealant layer for sustainable PE (Printable / MDO) – PE mono-material structures, supporting recyclability without compromising performance.

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## Blown PP for Retort Applications



PP-based solution offering strong mechanical properties with an easy-peel feature, designed for PP structures and suitable for lamination with other materials.

## Blown PP with Peelable Feature



PP-based solution offering strong mechanical properties with an easy-peel feature, designed for PP structures and suitable for lamination with other materials.

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## Label Applications



### Pressure Sensitive Labels (PSL)

A versatile, cost-effective solution providing instant adhesion to glass, plastic, metal, and cardboard without heat or solvents.

Widely used across industries like Food, Pharma, and Logistics, PSL offers a scalable and flexible choice for both standard and value-added packaging.

### In-Mold Labelling (IML)

Our PP blown films for IML deliver reliable bonding, excellent surface uniformity, and consistent print performance.

Optimized for high-volume production and mono-material recyclability, they offer a stable, high-quality finish for sustainable packaging.

# SUSTAINABLE PRODUCT PORTFOLIO

## GREEN SOLUTIONS





## Advance Recycling – Chemical Recycled

### Post Consumer Recycled PE with Food Contact

We manufacture polyethylene films using **100% recycled raw materials** sourced from global suppliers, producing films that are **fully recyclable and suitable for food contact**.

Our production process is designed to **support sustainability and the circular economy**, without compromising on quality or performance.

By working with certified international raw material partners, we ensure consistent quality and environmental responsibility throughout the supply chain.



## Mechanical Recycling

### Pre Consumer Recycled PE

Bareks delivers solutions with a zero-waste vision, aiming to reduce fossil-based waste and support a circular economy.

100% of Bareks' film waste is reintegrated into the manufacturing cycle, and the entire product portfolio can be produced with up to 70% pre-consumer recycled content, while maintaining the same mechanical and optical properties as virgin resin-based production.

Products manufactured with pre-consumer recycled PE meet all the same certifications as virgin-based products, including food contact compliance.



## Mechanical Recycling

### Post Industrial Recycled PE

Bareks offers a wide range of solutions produced using industrial waste, contributing to the circular economy.

Bareks' portfolio includes solutions with up to **100% Post Industrial Recycled (PIR) content for non-food applications**, delivering a high level of quality and consistency compared to PCR-based products.



## Mechanical Recycling

### Post Consumer Recycled PE

PCR resin products offer eco-friendly packaging that supports recycling, meets consumer demand, and reduces landfill waste.

Through our sister company **Bakcycle Recycling**—as well as other certified granule suppliers—Bareks strengthens its commitment to the circular economy by sourcing recycled raw materials derived from flexible plastic packaging waste.

Bareks offers **100% recyclable** films specifically designed for **hygiene and toilet paper** packaging.

## Sugar Cane Based

Sugar cane is a natural greenhouse gas absorber, making it highly significant not only for its nutritional value but also for its **positive impact on the atmosphere and environment.**

Building on this advantage, Bareks leverages its technical expertise to offer solutions made from 100% sugar cane-based content, providing an effective option for organizations seeking to **reduce their carbon footprint.**

This solution is **100% renewable and recyclable**, while maintaining performance, functionality, and application versatility comparable to fossil-based polyethylene.

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## Bio Naphta Base

Bareks meets this expectation by offering **bio-naphtha based polyethylene** solutions without requiring changes to existing packaging structures or competing with the food chain.

Bio-naphtha based PE enables a **lower carbon footprint through reduced CO<sub>2</sub> emissions** while delivering the same performance as conventional polyethylene.

Suitable for a wide range of applications, **from frozen foods to detergents**, this solution can be combined with recycled materials, meets food contact standards, and ensures long-term supply reliability.

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## Corn Starch Based

This product is made from **100% corn starch-based** material and is fully biodegradable and compostable, making it suitable for the separate collection of organic waste.

In addition to its environmental benefits, it offers excellent sealing and mechanical properties, enabling a wide range of **flexible packaging applications such as bags, pouches, and lamination films.**

## Solutions for Renewable Energy

This new sustainable solution from Bareks is increasingly preferred as an alternative in the market, particularly for **multi-layer packaging structures—such as PET/PE**—that are typically not recyclable.

It contributes to carbon footprint reduction and supports renewable energy generation under the concept of **“Landfill Gas to Energy (LFGE)”**.

Bareks’ solution utilizing **Organic Bio Gas Catalysis (OBC)** accelerates the natural anaerobic landfill process by enhancing biogas release, enabling efficient biogas capture and conversion into clean, sustainable energy.

Our **‘NEO’ solution** is not only food-contact compliant but also offers exceptional versatility, as it is applicable across the entire Bareks product portfolio.



## Printable Pe

Bareks Printable PE, **developed as a PET replacement**, is a high-performance solution designed for **flexographic and especially rotogravure printing**, where superior flatness and resistance to elevated printing temperatures are required.

It is particularly **suitable for mono- and polyolefin-based structures**, offering an effective alternative to PET structures—especially in terms of water vapor permeability.

This solution also **provides cost advantages** thanks to its lower sealing temperature compared to PET-based structures. Upon request, a range of optical properties is available, including high or low gloss, polarization, and haze control.



## MDO

**MDO (Machine Direction Orientation)** is a post-extrusion process that encourages **PE-PE Mono Material Structures** for Circular Economy instead of PET-PE Multi Material Structures. The film is essentially stretched in machine direction several times to obtain the required features, which enhance characteristics and improve properties.

### Applications

- MDO PE film is ideal as a printable outer layer in laminations, especially when combined with low SIT PE films.
- Allow direct ROTOGRAVURE & FLEXO printing and can be laminated with Bareks PE films to form fully PE-based recyclable packaging.

# MDO

## Product Features

- High transparency and gloss
- Excellent stiffness for better machinability
- Superior dimensional stability
- Made from 100% polyethylene
- Suitable replacement for PET or OPP films
- Easy printing with all major printing technologies

## Customizable Options

- Surface treatments
- Coating options
- Metallization

### BAREKS MDO PRODUCT RANGE

- Transparent MDO PE
- White MDO PE (custom color versions are available - upon request)
- Metallized MDO PE
- Matt MDO PE
- Twistable MDO PE
- MDO P (PE-based structure with PP contribution – upon request)

## Technical Specifications

Production Line	W&H
Production Line Details	VAREX II Blown Film Line
Number of Layers	5 Layers
Annual Capacity	5.000 tpa
Maximum Layflat	2.800mm
Maximum Film Width	Up to 2.400mm
MDO Thickness PE Range	20µ-50 µ
Core inner diameter	76/152mm(3"/6")
Corona Treatment	Inside/Outside/Both Sides



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