PRODUCT NEWS

Borstar® FB5560

High-density polyethylene grade for high-performance blown film applications



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Description

Borstar® FB5560 is a high-density polyethylene (HPDE) grade for blown and oriented film applications. It combines excellent mechanical properties with easy processability, offering an efficient solution for demanding film applications.

Application

Borstar® FB5560 is a versatile solution that supports a wide range of consumer and industrial packaging uses.

Key applications include:

- Consumer packaging: Machine direction-oriented (MDO) packaging, tissue packaging, and food pouches.
- Industrial packaging: Heavy-duty shipping sacks (HDSS) and form-fill-seal (FFS) packaging.

Tested on MDO equipment

- High stiffness
- Best-in-class processability
- Sustainable, supports transition to MonoPE solutions
- Ideal for blending with PCR materials
- Enhanced clarity
- Enables thickness reduction
- Available as Bornewables® or Borcycle® C.

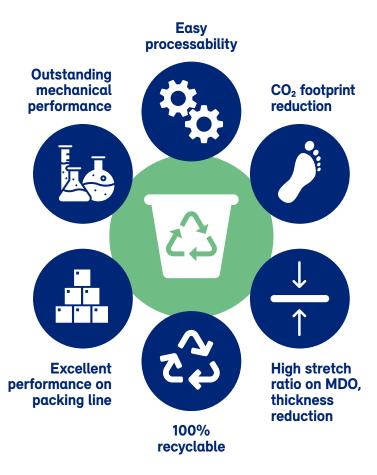
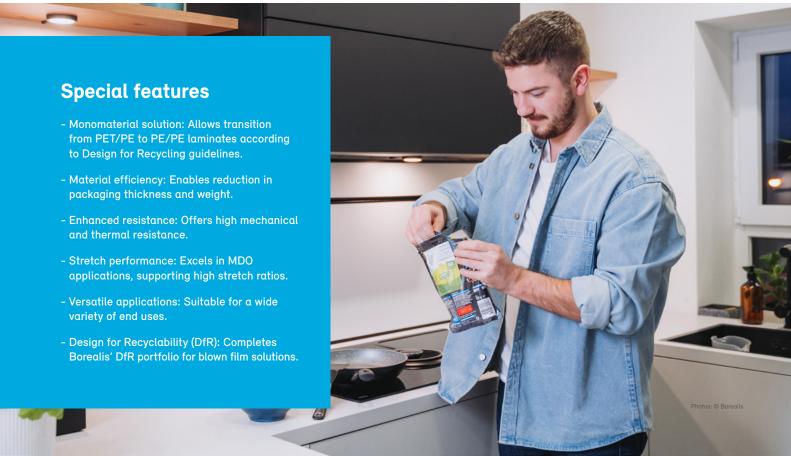


Illustration: Benefits of Borstar® FB5560 © Borealis



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Borstar® FB5560 in oriented applications

The new Borstar® FB5560 supports the efficient production of MDO blown films, offering excellent processability and compatibility with high stretch ratios. Its advantages include:

- Reliable performance as a lamination substrate and in various industrial applications.
- Excellent thermal resistance, particularly when combined with BorShape™ resins.
- Compatible with high-speed packing lines, with minimal waste or defects.
- Enables lighter packaging, achieving MDO film thicknesses below 25µ.

Property	Unit	Test method	Borstar® FB5560
MFR (@ 190°C/2.16 kg)	g/10min	ISO1133-1	0.8
Density	kg/m3	ISO1183-1	956
Tensile modulus MD-TD*	MPα	ISO527/3	970-1280
Tensile strain at break MD-TD*	%	ISO527/3	645-220

"Measured on 250 milm Table: Indicative physical properties of Borstar® FB5560 Illustration: Multilayer MDO structure based on Borealis' polyethylene materials

Borealis and Borouge packaging solutions are making everyday life easier

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Borealis is one of the world's leading providers of advanced and sustainable polyolefin solutions. In Europe, Borealis is also an innovative leader in polyolefins recycling and a major producer of base chemicals. We leverage our polymer expertise and decades of experience to offer value-adding, innovative and circular material solutions for key industries such as consumer products, energy, healthcare, infrastructure and mobility.

With operations in over 120 countries and head offices in Vienna, Austria, Borealis employs around 6,000 people. In 2022, we generated a net profit of EUR 2.1 billion. OMV, the Austria-based international oil and gas company, owns 75% of our shares. The Abu Dhabi National Oil Company (ADNOC), based in the United Arab Emirates (UAE), owns the remaining 25%.

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