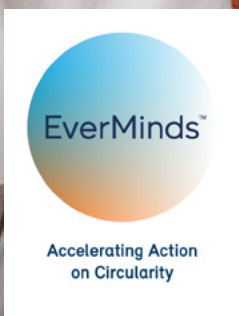


PRODUCT NEWS

# BorShape™, Queo™ and Anteo™ polyethylene materials for sustainable lamination film

The material of choice for mono-material solutions with high performance on packing lines and excellent shelf appeal



## Key benefits of BorShape™, Queo™ and Anteo™ polyethylene material for lamination film

- Designed to enable the transition toward sustainable mono-material solutions
- Maximizes the operating window on packaging lines through optimal enhanced sealing properties, including sealing initiation temperature (SIT), hot tack, and seal hermeticity
- Ensures pack safety, provides reliable product protection, and minimizes the rejection rate
- Offers good mechanical properties, enabling downgauging, stand-up performance, and mechanical resistance

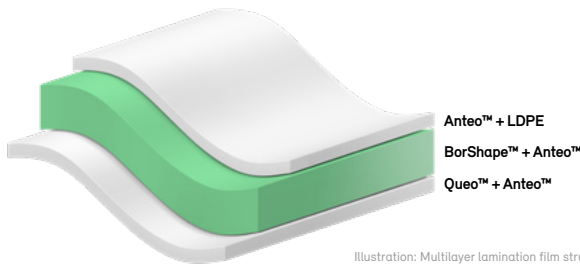
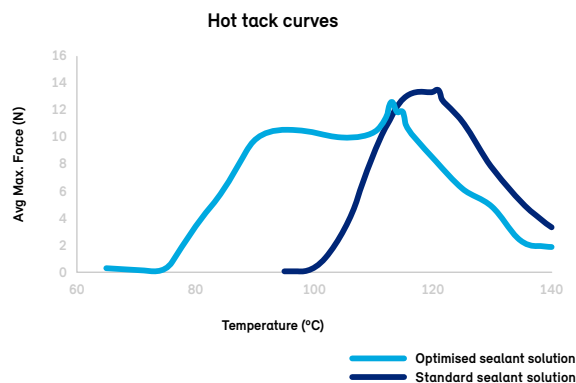


Illustration: Multilayer lamination film structure based on Borealis polyethylene materials

Enhanced properties	Measured values
COF	0.21
SIT (°C)	78
DDI (g)	241
Tensile modulus - machine direction (MPa)	911
Tensile modulus - transverse direction (MPa)	998



Graph: Optimized sealant solution vs. standard solution

Type	Grade	Density (Kg/m <sup>3</sup> )	MFI (190°C/2.16kg) (g/10min)	Key attributes
Bimodal Terpolymer	BorShape™ FX1001	933	0.2	Good stiffness/toughness balance
	BorShape™ FX1002	937	0.5	Good mechanical performance and excellent processability
Trimodal Terpolymer	BorShape™ FX1003	941	0.35	Good stiffness, mechanical performance, and thermal resistance, along with improved processability
Bimodal Terpolymer	Anteo™ FK1820	941	1.5	Improved tear performance, excellent processability, and enhanced film appearance
HDPE	MB5568	956	0.8	Excellent optics and stiffness

### Borealis and Borouge packaging solutions are making everyday life easier

date of issue: July 2024

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%.

In re-inventing essentials for sustainable living, we build on our commitment to safety, our people, innovation and technology, and performance excellence. We are accelerating the transformation to a circular economy of polyolefins and expanding our geographical footprint to better serve our customers around the globe. Our operations are augmented by two important joint ventures: Borouge (with ADNOC, headquartered in the UAE), and Baystar™ (with TotalEnergies, based in the US).

[borealisgroup.com](http://borealisgroup.com) | [borealisverminds.com](http://borealisverminds.com)

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