SUMMARY DATA SHEET

Solutions for fibers and nonwovens

BOREALIS

Borouge

Grade Name	Fiber Technology	Melt Flow Rate 230°C/2.16 kg (g/10min)	Molecular Weight Distribution (N/M/B)	Additives Antigasfading	Applications	Properties
Polypropylene for Hygiene Applications						
HE370FB	Staple fiber	12	M	·	Staple fiber dry-laid thermobonded nonwovens. High tenacity applications.	Excellent spinning performance on low and high speed technologies. Optimal bonding.
HG475FB	Spunbonded	27	N	·	Hygiene nonwoven products, spunbonded fabrics and layers in SMS structures.	Enhanced spinning performance, particularly suited to high-speed lines. Recommended grade for high-speed Reicofil lines.
HG485FB	Spunbonded	27	N	·	Hygiene nonwoven products, spunbonded fabrics and layers in SMS structures. Low weight and soft sustainable nonwovens.	Superior spinning performance, high tenacity and fine fiber capability allowing lower basis weight. Low volatiles.
HH450FB	Spunbonded	37	N	·	Hygiene nonwoven products, spunbonded fabrics and layers in SMS structures.	Enhanced spinning performance, particularly suited to high-speed lines.
HL708FB	Meltblown	800	N		Hygiene nonwoven products as the meltblown layer(s) and in SMS structures.	Provides consistent quality and superior barrier properties. Suitable for high-speed lines. Recommended grade for high-speed Reicofil lines.
HL712FB	Meltblown	1200	N		Hygiene nonwoven products, meltblown layers in SMS structures.	Provides consistent quality and superior barrier properties. Ideal for higher melt flow requirements. Suitable for high-speed lines.
HL912FB	Meltblown	1200	N		Hygiene nonwoven products as the meltblown layers in SMS structures.	Provides a wide processing window, enabling the production of even finer fibers, which offer better opacity and lower air permeability.
RG444FB	Spunbonded	27	N	·	Spunbond nonwovens.	Random copolymer providing excellent sealability and softness.
RH414FB	Spunbonded	35	N	·	Spunbond nonwovens. Recommended for use with HG475FB in side-by-side configurations to achieve high loft.	Random copolymer containing slip additive. Excellent for applications requiring high loft and softness. Recommended grade for high loft Reicofil lines.
PP Homopolymers for Filtration & Absorbtion						
HG475FB	Spunbonded	27	N	·	Spunbond support layer(s) for filtration media.	Enhanced spinning performance and good mechanical properties. Provides good fiber diameter control.
HH450FB	Spunbonded/ meltblown	37	N	·	Spunbond and meltblown support layer/s for filtration media.	Enhanced spinning performance and good mechanical properties. Enables well-formed pleatable media.
HK060AE	Meltblown	125	N		Coarse meltblown fibers that serve as a support layer in filtration media and absorbents.	High output and excellent processability on multirow/ biax meltblown lines.
HL504FB	Meltblown	450	N		Filtration media and oil absorbents.	Enables the production of coarser meltblown fibers, resulting in a web with a more open structure and increased stiffness, suitable for applications such as pleating.
HL708FB	Meltblown	800	N		Various applications in air and liquid filtration, as well as absorbents.	Enables the production of fine fibers, which offer improved filtration efficiency and high dust-holding capacity. Easy to electrically charge for better filtration. Enables high absorption capacity.
HL712FB	Meltblown	1200	N		Fine fibers for filtration media and absorbents. Used for higher filtration classes.	Enables the production of fine fibers, which support excellent filtration efficiency. Easy to electrically charge for better filtration. Enables high absorption capacity.
HL912FB	Meltblown	1200	N		Ultra-fine fibers for filtration media. Used for higher filtration classes.	Provides a wide processing window, enabling the production of ultra-fine fibers for filtration media. Easy to electrically charge for better filtration.
HL918FB	Meltblown	1800	N		Ultra-fine fibers for filtration media. Used for higher filtration classes.	Contains a charging additive package that is compatible with both electro- and hydro-charging to improve filtration efficiency. The grade has a wide temperature processing window enabling production of ultra fine fibers.

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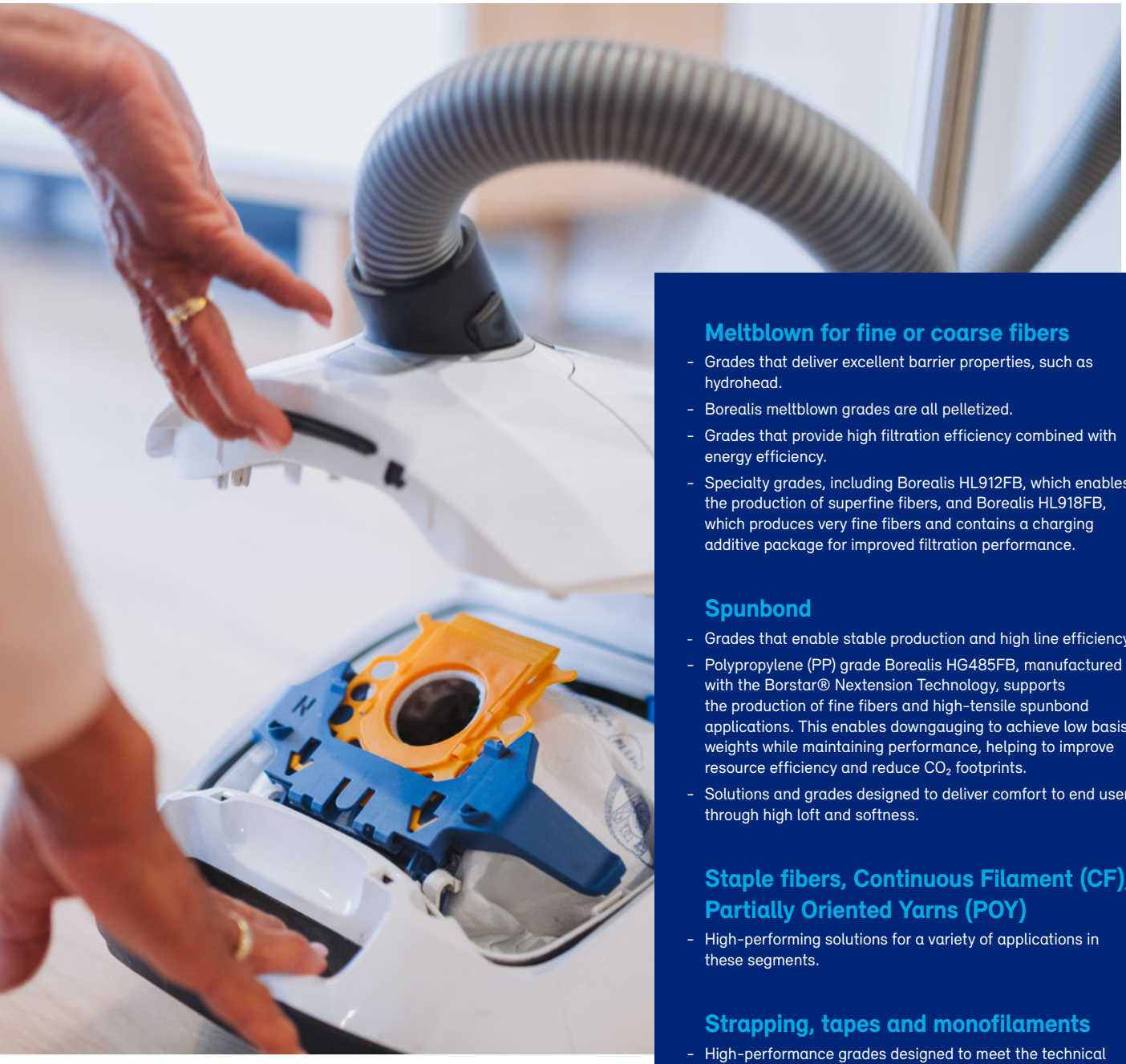
PP Homopolymers for Technical Textiles						
HA507MO	Strapping	0.8	B		Heavy duty strapping.	Good mechanical properties.
HC101BF	Tapes and monofilaments	3.2	B		Woven fabrics, ropes and twines.	Easy to process and good mechanical properties.
HF420FB	Spunbonded, CF and POY filaments	19	N	·	Geotextiles, technical nonwovens.	Excellent mechanical properties.
HG365FB	Staple fibers, CF, BCF and POY	24	M	·	All fibers applications where gas fading has to be avoided.	Excellent spinning performance.
HG475FB	Spunbonded, CF and POY filaments	27	N	·	Partial oriented yarns (POY) for woven and knitted fabrics.	Enhanced spinning performance and anti-gasfading formulation.
HH450FB	Spunbonded, CF and POY filaments	37	N	·	Partial oriented yarns (POY) for woven and knitted fabrics.	Enhanced spinning performance and anti-gasfading formulation.
HG485FB	Spunbonded	27	N	·	Geotextiles, technical nonwovens.	Superior spinning performance, high tenacity and fine fiber capability allowing lower basis weight. Low volatiles.
PP Homopolymers for other applications						
HL504FB	Meltblown	450	N		Flow enhancer for molding and extrusion applications. Carrier for combining additives in compounding and masterbatch processes. Matrix material in composite structures.	Offers high melt flow rates. Pelletized material for easy handling and conveying.
HL708FB	Meltblown	800	N			Offers very high melt flow rates allowing higher filler contents. Pelletized material for easy handling and conveying.
HL712FB	Meltblown	1200	N			Ultra-high melt flow rates allowing the highest filler contents. Pelletized material for easy handling and conveying.

Key benefits of Borealis polyolefin solutions for fibers

Borealis offers a broad range of high-quality, consistent materials for hygiene, filtration, and other nonwoven applications. With over 40 years of expertise in polymer properties and their impact on fiber performance, we provide tailored solutions to meet the needs of our customers and value chain partners.

A dedicated application team works closely with clients to deliver expert support and fit-for-purpose grades. This is complemented by the capabilities of our Innovation Headquarters in Linz, Austria, which is equipped with a meltblown pilot line, filtration tester, and other testing equipment. These facilities enable collaborative product development, including joint trials and testing.



Meltblown for fine or coarse fibers

- Grades that deliver excellent barrier properties, such as hydrohead.
- Borealis meltblown grades are all pelletized.
- Grades that provide high filtration efficiency combined with energy efficiency.
- Specialty grades, including Borealis HL912FB, which enables the production of superfine fibers, and Borealis HL918FB, which produces very fine fibers and contains a charging additive package for improved filtration performance.

Spunbond

- Grades that enable stable production and high line efficiency.
- Polypropylene (PP) grade Borealis HG485FB, manufactured with the Borstar® Nextension Technology, supports the production of fine fibers and high-tensile spunbond applications. This enables downgauging to achieve low basis weights while maintaining performance, helping to improve resource efficiency and reduce CO_2 footprints.
- Solutions and grades designed to deliver comfort to end users through high loft and softness.

Staple fibers, Continuous Filament (CF), Partially Oriented Yarns (POY)

- High-performing solutions for a variety of applications in these segments.

Strapping, tapes and monofilaments

- High-performance grades designed to meet the technical demands of these applications.

Our partners can also benefit from the Bornewables™ and Borcycle™ C versions of all our grades for fibers.

Accelerating action on circularity with the Bornewables™ and Borcycle™ C ISCC PLUS-certified polyolefins

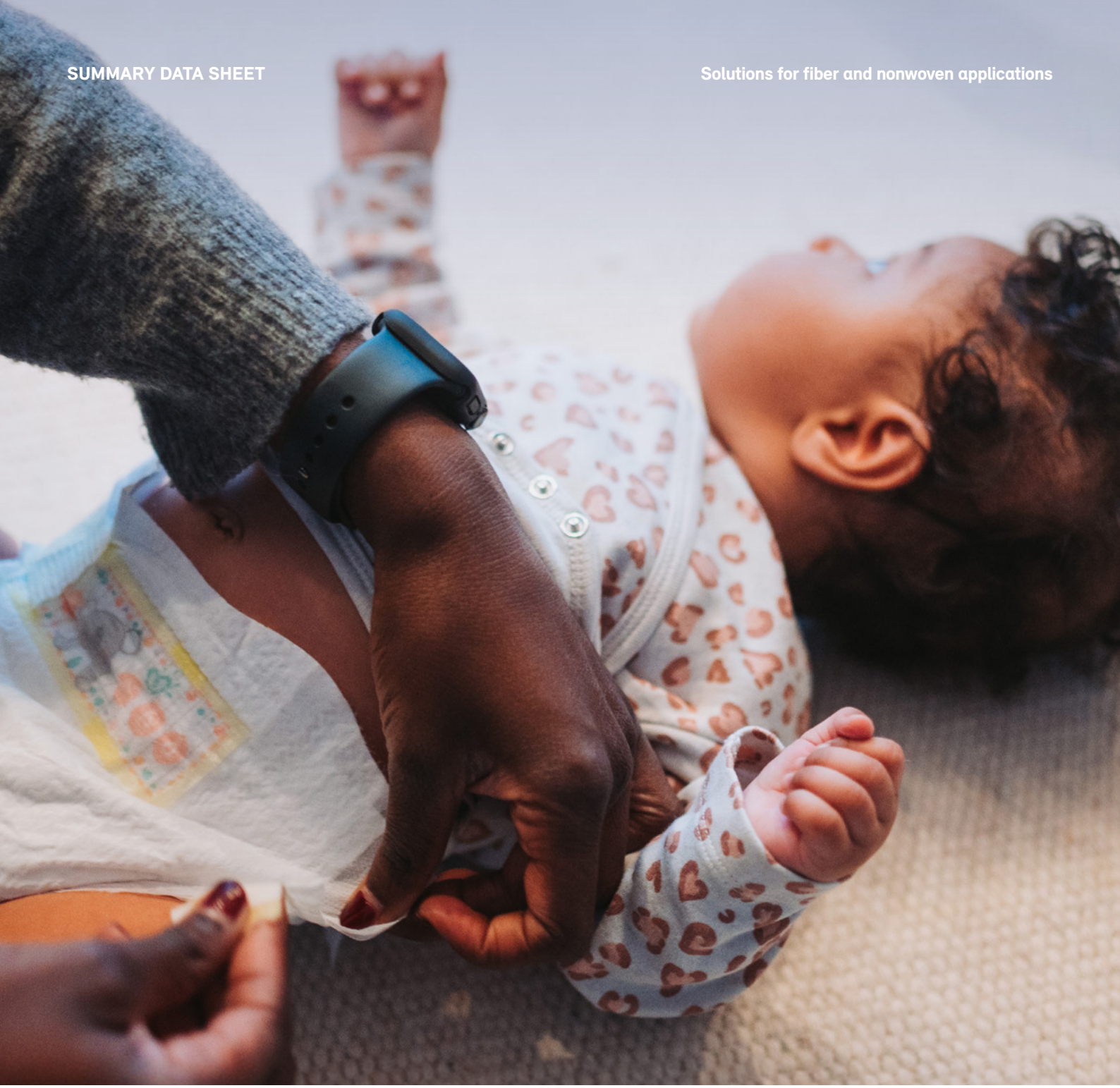
Meet your sustainability targets with materials made from renewable or chemically recycled feedstocks that deliver the same material performance and regulatory compliance as virgin grades.

The Bornewables

The Bornewables is our portfolio of premium polyolefins made from renewable feedstocks derived entirely from waste and residue streams. They provide the same excellent quality as fossil-based materials while reducing carbon emissions.

Borcycle C

Borcycle C is our portfolio of virgin-equivalent polyolefins based on post-consumer waste. Created using advanced chemical recycling technology, these materials are ideal for high-performance and contact-sensitive applications, helping to meet the requirements of the European Packaging and Packaging Waste Regulation (PPWR).



Borealis and Borouge consumer products solutions are making everyday life easier

date of issue: **April 2025**

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).

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