



SUMMARY DATA SHEET

# PO Blown Film Applications

 BOREALIS

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# Summary Data Sheet for PP Blown Film Applications

Product name	MFR 230°C/2.16kg (g/10min)	MWD	Melting Temp. (°C)	Nucleated	Vicat A50 (°C)	Tensile Modulus MD/TD [Mpa] (50µm)	Features	Applications
<b>PP Homopolymers</b>								
HC205TF	4.0	medium	164	yes	152	1650/1500	High stiffness, good transparency and glossy	Printable substrate for mono-material laminate
<b>PP Heterophasic Copolymers</b>								
BA110CF	0.85	medium	164	no	150	1200/1100	Balanced stiffness/toughness ratio, sterilisable	Lamination film for food packaging, monoaxial oriented film, hygienic film, siliconisable film
BB213CF	1.2	narrow	164	no	150	1100/1000	Balanced stiffness/toughness, sterilisable	Stand-up pouch for retorted food
BC918CF	3.0	medium	168	yes	155	1550/1150	High stiffness/toughness balance, good optics after sterilisation	Lamination film, stand-up pouch, label film
<b>PP Random Copolymers</b>								
RB707CF	1.5	medium	145	yes	122	950/900	High stiffness, good optics	Lamination film, label film, food packaging
<b>PP Random/Heterophasic Copolymers</b>								
SA233CF	0.8	medium	141	no	114	500/500	Low temperature resistance, high softness and toughness	Lamination film, hygienic film, industrial packaging, stand-up pouch

Typical values not to be construed as specifications  
MWD = Molecular Weight Distribution

Property	Test Method
Melt Flow Rate (230°C/2.16kg)	ISO 1133
Melting temperature (DSC)	ISO 3146
Vicat A50	ISO 306
Tensile Modulus	ISO 527-3



# Key trends and answers in the flexible packaging film industry

An overview of key trends driving the flexible packaging film industry might begin with the issue of food safety and freshness. The amount of available arable land is finite, yet global demand for food is growing. The agriculture industry must seek out the most efficient methods of getting more food to the table – faster and fresher than ever before. Polyolefins will maintain their principal role as the backbone of most packaging solutions because they can best safeguard the quality and shelf life of food, and can fulfil increasingly stringent regulatory and legislative requirements. What is more, polyolefins can help make enhanced functionalities possible, such as peelability, breathability, and sterilisability; they also boast high barrier and light blocking properties, and are microwavable.

As convenience continues to drive the industry, consumers want packaging that not only retains freshness, but is easy to open and reseal. Demand for long-life food products is also bolstering the trend towards retortable plastic packaging. Brand owners aim to differentiate their product from those of their competitors by way of aesthetically appealing packaging.

Another key driver is sustainability. In the true spirit of **EverMinds™**, Borealis is a frontrunner in helping to build a circular economy for plastics.

As brand owners respond to legislative and regulatory pressure by downgauging, design for recycling, increasing recycled content and reducing reliance on fossil-fuel based feedstocks, polyolefins play an essential role as enabler by making products lighter, recyclable, more climate friendly and eco- & cost efficient.

Borealis, together with its wholly-owned recycling subsidiaries, mtm plastics and Ecoplast, is an integral player in the industry working together along the value chain to accelerate the transformation from a linear to a circular economy.

Many packaging structures have traditionally used multi-material laminates which can be very difficult to recycle in mechanical recycling processes, while polyolefins (PE and PP) are an ideal material for designing flexible and rigid packaging that can be recycled.

Design for recycling shall deliver high-quality mono-material recycle streams which can then be incorporated into various next-step PE and PP structures.

The **Bornewables™** is a portfolio of circular polyolefin products, manufactured with second generation renewable feedstock, providing a carbon footprint reduction while offering equally high material performance.

**Borcycle™ C** is a portfolio of virgin-like polyolefins from chemically recycled post-consumer waste.

To learn more about how Borealis can help you create more sustainable solutions, please contact your Borealis representative.

Making everyday life easier | Date of issue: July 2022

**About Borealis** Borealis is one of the world's leading providers of advanced and circular polyolefin solutions and a European market leader in base chemicals, fertilizers and the mechanical recycling of plastics. We leverage our polymers expertise and decades of experience to offer value adding, innovative and circular material solutions for key industries. In re-inventing for more sustainable living, we build on our commitment to safety, our people and excellence as we accelerate the transformation to a circular economy and expand our geographical footprint.

With head offices in Vienna, Austria, Borealis employs 6,900 employees and operates in over 120 countries. In 2021, Borealis generated total sales and other income of EUR 10,153 million and a net profit of EUR 1,396 million. OMY, the Austria-based international oil and gas company, owns 75% of Borealis, while the remaining 25% is owned by a holding company of the Abu-Dhabi based Mubadala. We supply services and products to customers around the globe through Borealis and two important joint ventures: Borouge (with the Abu Dhabi National Oil Company, or ADNOC, based in UAE); and Baystar™ (with TotalEnergies, based in the US).

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