



**Making everyday life easier** | Date of issue: September 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. OMV, 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).

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

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**FOR MORE INFORMATION:**

visit [www.borealisgroup.com](http://www.borealisgroup.com) and [www.borouge.com](http://www.borouge.com)

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SUMMARY DATA SHEET

# Solutions for Thermofforming



# Solutions for Thermoforming



Product name	MFR (g/10 min) PP: 230 °C/2.16 kg PE: 190 °C/2.16 kg	Melting point (°C)	Tensile modulus (MPa)	Charpy 23 °C (kJ/m <sup>2</sup> )	Charpy -20 °C (kJ/m <sup>2</sup> )	HDT 0.45 MPa (°C)	Vicat A50 (°C)	Characteristics	Applications/properties
<b>PP homopolymers</b>									
HB600TF	2	168	1,400	3		86	155		Good melt stability and thermoforming behaviour. Margarine tubs, dairy and food packaging cups, containers and trays, blister packaging, confectionary packaging.
HC600TF	2.8	164	1,600	4		85	154		Good melt stability and thermoforming behaviour. Food packaging cups, containers, trays and lids, colored applications.
HC205TF	4	164	1,900	5		105	152	BNT	Good stiffness, fast processability and good thermoforming behaviour. Margarine tubs, dairy and food packaging cups, containers, trays and lids.
<b>PP random copolymers</b>									
RB707CF	1.5	145	900	20		70	122	NU	Excellent transparency and 'see through' clarity. Food packaging cups, containers and trays, blister packaging. Lids with good resistance to splitting.
RB501BF	1.9	140	800	9		60	125		Good thermoforming behaviour. Food packaging cups, containers and trays.
<b>PP heterophasic (block) copolymers</b>									
BB213CF	1.2	164	1,200	30	2.5	70	150		Good melt stability and thermoforming behaviour. Good low temperature resistance. Freezer and microwave food packaging.
BC918CF	3	168	1,550	35	1.2	90	155	NU	High transparency with good stiffness and impact behaviour in low temperatures. MAP trays, transparent lids with good resistance to splitting, microwave and freezer food packaging.
BC245MO	3.5	166	1,350	15	6.5	85	152	NU, AS	Good stiffness and impact balance and low temperature resistance. Food packaging cups, containers and trays for freezer.
BD212CF	5	166	1,100	7	2.5	70	150		Reduced shrinkage, low temperature resistance. Food packaging cups, containers and trays for freezer, high impact lids.
<b>Plastomers</b>									
Queo™ 0203	3	96	65				80		High transparency with good gloss and impact behaviour in low temperatures. Impact modifier and for sealing layers in multilayer system.

Typical values not to be construed as specifications

#### Abbreviations

AS: antistatic agent  
BNT: Borstar Nucleation Technology  
NU: nucleating agent

#### Property

Melt Flow Rate  
Melting temperature (DSC)  
Tensile modulus

#### Test Method

ISO 1133  
ISO 11357-3  
ISO 527-2

#### Property

Charpy impact strength  
HDT, method B (0.45 MPa)  
Vicat temperature

#### Test Method

ISO 179/1eA  
ISO 75-2  
ASTM D1525