



SUMMARY DATA SHEET

Solutions for **Moulding** **Applications**



بروج

Borouge



Moulding product nomenclature key

Polyethylene

M	B: Blow moulding M: Injection moulding		
B			
5	0: MFR _{2,16} 1: MFR _{2,16} 2: MFR _{2,16} 3: MFR _{2,16} 4: MFR _{2,16}	0-4 4.1-18 >18 0-0.4 0.41-0.7	5: MFR _{2,16} 6: MFR _{2,16} 7: MFR _{2,16} 8: MFR _{2,16} 9: MFR _{2,16}
5	} Density: corresponds to 956 kg/m ³	0.71-1.4	
6		1.41-2.9	
8		3.0-5.0 5.1-8.0 >8.1	

Polypropylene

R	H: Homopolymer B: Block copolymer	R: Random polymer S: Specialities
J	A: MFR 0-0.8 B: MFR 0.8-2.5 C: MFR 2.5-5.0 D: MFR 5.0-10 E: MFR 10-15	F: MFR 15-20 G: MFR 20-30 H: MFR 30-50 J: MFR 50-100
7		
6		
6		
M	} MO: Product belonging to moulding	
O		

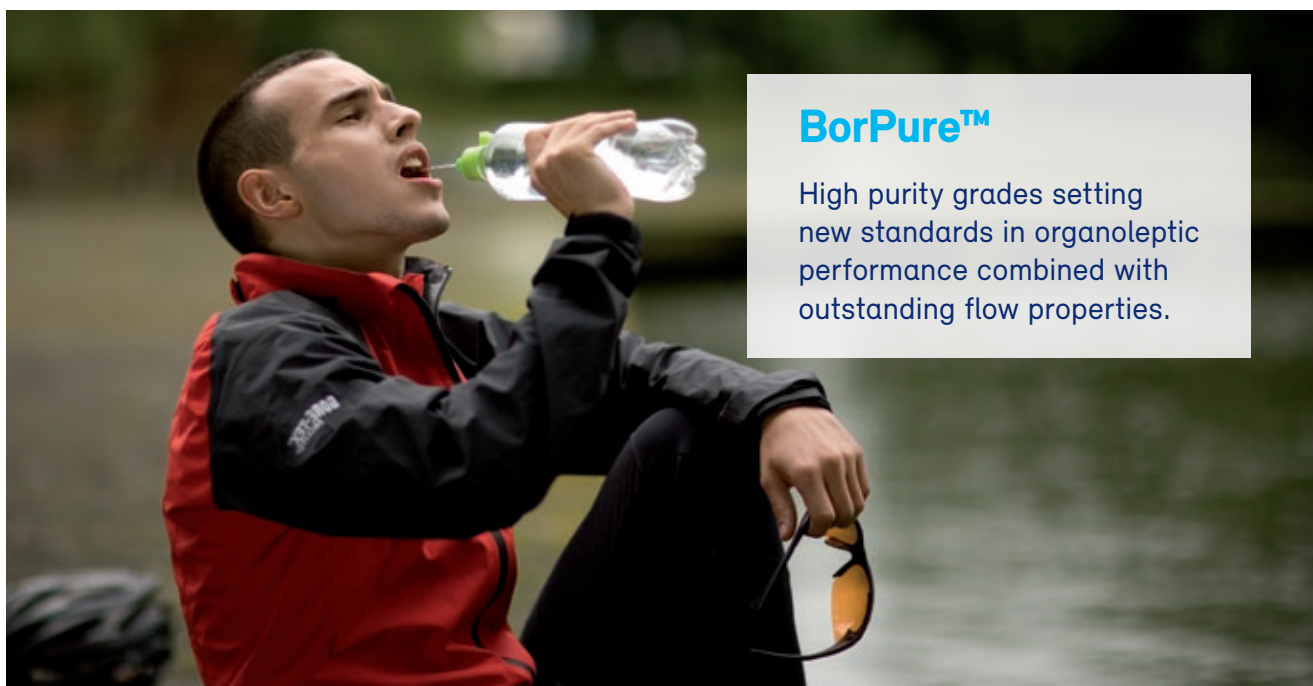
Test methods

Melt flow rate:	ISO 1133
Tensile modulus, stress & strain:	ISO 527-2
Charpy impact strength, notched:	ISO 179/1eA
ESCR:	ASTM 1693 (10% igePal)
Density:	ISO 1183
HDT, method B (0.45 MPa):	ISO 75-2

Test methods

Melt flow rate:	ISO 1133
Tensile modulus:	ISO 527-2
Charpy impact strength, notched:	ISO 179/1eA
HDT, method B (0.45 MPa):	ISO 75-2

Mechanical properties determined on injection moulded specimens made according to ISO 1873-2, based on 7 days conditioning time



BorPure™

High purity grades setting new standards in organoleptic performance combined with outstanding flow properties.

Solutions for Moulding Applications

Product name	Conversion	MFR (g/10 min) PE: 190 °C/2.16 kg	Density (kg/m ³)	Tensile modulus (MPa)	Charpy 23 °C (kJ/m ²)	HDT B (°C)	ESCR (h) (gepal 10%)	ESCR on caps (h) – Borealis internal method	Characteristics	Thin wall packaging	Houseware	Transport packaging	Caps & closures	Technical applications	Bottles and container	Sheet
PE high density																
BB2541	BM	0.3	954	1,100	9	75	500		multimodal							•
BB2581	BM	0.3	958	1,300	8	80	100		multimodal							•
BorPure™ MB7541	IM, CM	4	954	850	9	65			multimodal		•	•				
BorPure™ MB5568	IM, CM	0.8	956	1,000	19			60	multimodal		•	•				
BorPure™ MB5569	IM, CM	0.8	956	1,000	19			60	multimodal, SA				•			
PE low density																
CT7200	IM	5	918	140									•			
MA8200	IM	7.5	920	145									•			
Plastomers																
Queo™ 0203	BM, IM	3	912						impact modification				•			•
Queo™ 1007	IM	6.6	910										•			
Queo™ 8210LA	IM	10	883										•			
Queo™ 8230	IM	30	883						impact modification	•			•			

Abbreviations

AS: antistatic agent – BNT: Borstar Nucleation Technology – CR: controlled rheology – NU: nucleating agent – SA: slip agent – UV: UV stabilised – HDT: heat deflection temperature – ISBM: injection stretch blow moulding – TF: thermo forming – IM: injection moulding – BM: blow moulding – CM: compression moulding – PB: partial break – nb: no break

Additional data for each product is given in individual datasheets found at: www.borealisgroup.com and www.borouge.com.
For healthcare applications, see the Bormed™ summary data sheet at: www.borealisgroup.com and www.borouge.com.



Product name	Conversion	MFR (g/10 min) PP-230 °C/2.16 kg	Tensile modulus (MPa)	Charpy 23 °C, (kJ/m ²)	Charpy -20 °C, (kJ/m ²)	HDT B (°C)	Characteristics	Thin wall packaging	Houseware	Transport packaging	Caps & closures	Technical applications	Bottles and container	Sheet
PP heterophasic (block) copolymers														
BB125MO	BM, sheet	1.3	1,300	50 PB	7	85	NU							
BC245MO	IM	3.5	1,350	15	6.5	85	AS, NU							
BC250MO	IM	4	1,200	25PB	7.5	80	AS, NU							
BD950MO	IM, CM	7	1,500	8	4	90	BNT, AS, SA							
BD310MO	IM	8	1,400	9	4	85	AS, NU							
BE961MO	IM	12	1,200	13	6.5	90	BNT, AS							
BE170CF	IM	13	1,250	8	3.5	80								
BF970MO	IM	20	1,500	8	4.5	100	BNT, AS							
BH381MO	IM	35	1,700	6.5	3.5	105	BNT, AS							
BH345MO	IM	45	1,400	6	3.5	85	AS, NU							
BH374MO	IM	45	1,500	6	3.5	95	BNT, AS							
BH348MO	IM	50	1,150	10	5	85	BNT, AS							
BJ368MO	IM	70	1,500	5.5	3.5	100	BNT, AS							
BJ380MO	IM	80	1,300	5	3.5	90	CR, AS, NU							
BJ356MO	IM	100	1,600	4	2.5	105	AS, NU							
BJ998MO	IM	100	1,400	5	3	100	BNT, AS							
PP specialities														
SD233CF	IM	7	600	11	5	55	High softness transparent							
SH950MO	IM	40	1,050	8	3	75	BNT, AS, transparent with impact							



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PP homopolymers													
HE125MO	IM	12	1,550	3.5	88					•	•		
HF955MO	IM	20	2,200	2.5	115	BNT	•	•		•	•		
HF136MO	IM	20	1,500	3	85	CR		•					
HG385MO	IM	25	1,750	3	108	BNT, CR, AS, SA					•		
HG313MO	IM	30	1,500	2.5	90	CR, AS, NU, SA	•				•		
HJ325MO	IM	50	1,650	2	100	CR, AS, NU	•	•		•			
PP random copolymers													
RB307MO	BM	1.5	900	25	70	NU							•
RB206MO	BM	1.9	1,150	7	80	NU, hot fill							•
RE420MO	IM	13	1,100	6	75	AS, NU	•	•		•		•	
BorPure™ RF777MO	IM	20	1,100	6	72	AS, BNT	•	•		•		•	
RF365MO	IM	20	1,150	5.5	75	AS, NU	•	•		•		•	
BorPure™ RG466MO	IM	30	1,100	5.5	75	BNT, AS, good organoleptics	•	•		•			
BorPure™ RJ377MO	IM	45	1,100	4.5	75	BNT, AS, good organoleptics	•	•		•			
BorPure™ RJ766MO	IM	70	1,150	4.5	75	BNT, AS, good organoleptics	•	•		•			
RJ908MO	IM	80	1,150	4.2	80	CR, AS, NU	•	•		•			

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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).

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