

Borouge® RB307MO

RB307MO is a random copolymer with good transparency and contact clarity, very good gloss and surface finish. This grade also features high heat distortion temperature. Applications: household and chemical containers such as detergents, cleaners, motor oils, industrial chemicals, and cosmetics.

Information provided by Borealis AG

Physical Properties	Metric	English	Comments
Density	0.902 g/cc	0.0326 lb/in ³	ISO 1183

Melt Flow	1.5 g/10 min @Load 2.16 kg, Temperature 230 °C	1.5 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133
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Mechanical Properties	Metric	English	Comments
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Tensile Strength, Yield	24.0 MPa	3480 psi	50mm/min; ISO 527-2
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Elongation at Yield	13 %	13 %	50mm/min; ISO 527-2
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Tensile Modulus	0.900 GPa	131 ksi	1mm/min; ISO 527-2
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Charpy Impact, Notched	2.00 J/cm ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
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Thermal Properties	Metric	English	Comments
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Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	ISO 75-2
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Processing Properties	Metric	English	Comments
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Middle Barrel Temperature	190 - 220 °C	374 - 428 °F	
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Die Temperature	180 - 220 °C	356 - 428 °F	
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Melt Temperature	180 - 220 °C	356 - 428 °F	
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