

# Borouge<sup>®</sup> BE961MO

BE961MO is an heterophasic copolymer characterized by an optimum combination of high stiffness, low creep and very high impact strength.

BE961MO is a new generation grade for very fast production of injection molded items, meeting the increasing demand of wall thickness reduction in the packaging segment. Main applications are crates, boxes, pails, luggage, and technical parts.

Former trade name for this product was Bormod™.

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in <sup>3</sup>	ISO 1183

Linear Mold Shrinkage	0.015 - 0.020 cm/cm	0.015 - 0.020 in/in	
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Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 230 °C	12 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133
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Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	22.99 MPa	3335 psi	At 50 mm/min; ISO 527-2

Elongation at Yield	5.3 %	5.3 %	At 50 mm/min; ISO 527-2
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Tensile Modulus	1.20 GPa	174 ksi	At 1 mm/min; ISO 527-2
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Charpy Impact, Notched	1.40 J/cm <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	ISO 179/1eA
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	0.700 J/cm <sup>2</sup> @Temperature -20.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 179/1eA
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Instrumented Impact Total Energy	35.0 J @Temperature 0.000 °C	25.8 ft-lb @Temperature 32.0 °F	Total Penetration Energy; ISO 6603-2
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	40.0 J @Temperature -20.0 °C	29.5 ft-lb @Temperature -4.00 °F	Total Penetration Energy; ISO 6603-2
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.0 °C	198 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 260 °C	410 - 500 °F	

Mold Temperature	10.0 - 30.0 °C	50.0 - 86.0 °F	
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