

# Borouge® BF970MO

BF970MO is a heterophasic copolymer characterized by an optimum combination of very high stiffness and high impact strength. BF970MO 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 include crates, boxes, pails, housewares, and technical parts.

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	
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 230 °C	20 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133
Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	89	89	ISO 2039-2
Tensile Strength, Yield	27.00 MPa	3916 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	5.0 %	5.0 %	At 50 mm/min; ISO 527-2
Tensile Modulus	1.50 GPa	218 ksi	At 1 mm/min; ISO 527-2
Charpy Impact, Notched	0.850 J/cm <sup>2</sup>	4.05 ft-lb/in <sup>2</sup>	ISO 179/1eA
	0.450 J/cm <sup>2</sup> @Temperature -20.0 °C	2.14 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	ISO 179/1eA
Instrumented Impact Total Energy	15.0 J @Temperature -20.0 °C	11.1 ft-lb @Temperature -4.00 °F	Total Penetration Energy; ISO 6603-2
	20.0 J @Temperature 0.000 °C	14.8 ft-lb @Temperature 32.0 °F	Total Penetration Energy; ISO 6603-2
Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °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	