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Borouge® BD950MO

BD950MO is a heterophasic copolymer. This grade is intended for compression and injection molding. The main features of this grade are good stiffness and impact resistance, very good process ability, high melt strength and extremely low tendency to stress whitening. This grade uses Borealis Nucleation Technology (BNT) to increase productivity by cycle time reduction.

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 230 °C	7.0 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	27.0 MPa	3920 psi	50mm/min; ISO 527-2
Elongation at Yield	4.5 %	4.5 %	50mm/min; ISO 527-2
Tensile Modulus	1.50 GPa	218 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.450 J/cm² @Temperature -20.0 °C	2.14 ft-lb/in² @Temperature -4.00 °F	ISO 179/1eA
	0.850 J/cm² @Temperature 23.0 °C	4.04 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eA
Puncture Energy	15.0 J @Temperature -20.0 °C	11.1 ft-lb @Temperature -4.00 °F	ISO 6603-2
	20.0 J @Temperature 0.000 °C	14.8 ft-lb @Temperature 32.0 °F	ISO 6603-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 260 °C	446 - 500 °F	
Mold Temperature	10.0 - 30.0 °C	50.0 - 86.0 °F	
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	