

Borealis BH980MO Polypropylene Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

Material Notes:

BH980MO is a heterophasic copolymer. This grade provides very high stiffness, high gloss and low stress whitening. and is designed for high-speed injection molding and contains nucleating and antistatic/demolding additives. Components molded from this grade have excellent demolding properties, high stiffness and gloss, good impact strength and low taste and odor. Applications: containers and products with medium to long flow length, closures, House ware and packaging requiring high stiffness and good impact, articles with integral hinges and demands for high gloss, and products with thicker wall sections requiring short cycle time. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BH980MO-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	45 g/10 min @Load 2.16 kg, Temperature 230 °C	45 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ISO 2309-2
Tensile Strength, Yield	34.0 MPa	4930 psi	50mm/min; ISO 527-2
Elongation at Yield	6.0 %	6.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.75 GPa	254 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.250 J/cm ² @Temperature -20.0 °C	1.19 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA
	0.400 J/cm ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Puncture Energy	10.0 J @Temperature 0.000 °C	7.38 ft-lb @Temperature 32.0 °F	ISO 6603-2
	10.0 J @Temperature -20.0 °C	7.38 ft-lb @Temperature -4.00 °F	ISO 6603-2

Thermal Properties	Metric	English	Comments
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Thermal Properties <small>Deflection Temperature at 0.46 MPa (60 psi)</small>	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 °C	428 - 500 °F	
Mold Temperature	20.0 - 50.0 °C	68.0 - 122 °F	
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

Descriptive Properties	Value	Comments
Injection Velocity	high	

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