

Borealis BH345MO Polypropylene Copolymer

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

Material Notes:

BH345MO is a heterophasic copolymer. This grade is characterized by optimum combination of very high stiffness, good flow properties and good impact strength. and is designed for high speed injection molding and contains nucleating and antistatic/demolding additives. Components molded from this grade show good eject ability and combine excellent stiffness with very good gloss, good antistatic and excellent organoleptic properties. Applications: thin wall containers, frozen food packaging, closures, household applications, technical parts, and pails. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BH345MO-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.904 g/cc	0.0327 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	89	89	ISO 2309-2
Tensile Strength, Yield	26.0 MPa	3770 psi	50mm/min; ISO 527-2
Elongation at Yield	5.0 %	5.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.40 GPa	203 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.400 J/cm ² @Temperature -20.0 °C	1.90 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA
	0.650 J/cm ² @Temperature 23.0 °C	3.09 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Puncture Energy	22.0 J @Temperature -20.0 °C	16.2 ft-lb @Temperature -4.00 °F	ISO 6603-2
	30.0 J @Temperature 0.000 °C	22.1 ft-lb @Temperature 32.0 °F	ISO 6603-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa			

(56 psi) Thermal Properties	95.0 °C Metric	203 °F English	ISO 75-2 Comments
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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	
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

Descriptive Properties	Value	Comments
Injection Velocity	highest possible	

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