

Borealis Borpact™ SG321MO Polypropylene Random Heterophasic Copolymer for Injection Molding

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

Material Notes:

Borpact SG321MO is a specially designed modified relatively soft and transparent polypropylene random heterophasic copolymer intended for injection molding. Borpact SG321MO has excellent flow, is formulated for high speed injection molding and contains nucleating and release additives. Borpact SG321MO is designed for thin walled containers, lids and houseware articles requiring flexibility, good contact transparency and high impact strength. Examples include thin wall containers, houseware containers and lids, closures with film hinge, and tubes for cosmetic packaging. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borpact-SG321MO-Polypropylene-Random-Heterophasic-Copolymer-for-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 230 °C	25 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ISO 868
Tensile Strength, Yield	17.00 MPa	2465 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	15 %	15 %	At 50 mm/min; ISO 527-2
Tensile Modulus	0.600 GPa	87.0 ksi	At 1 mm/min; ISO 527-2
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179/1eA
	0.650 J/cm ² @Temperature -20.0 °C	3.09 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA
Impact Test	18.0 J	13.3 ft-lb	Total Penetration Energy; ISO 6603-2
	30.0 J @Temperature -20.0 °C	22.1 ft-lb @Temperature -4.00 °F	Total Penetration Energy; ISO 6603-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	59.0 °C	138 °F	ISO 75-2

Thermal Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
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Transmission, Visible	90 %	90 %	transparent; thickness not quantified
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Processing Properties	Metric	English	Comments
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Melt Temperature	210 - 250 °C	410 - 482 °F	
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Mold Temperature	30.0 - 60.0 °C	86.0 - 140 °F	
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