

Borealis Borsoft™ SG220MO Polypropylene Random Copolymer for Injection Molding

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

Material Notes:

Borsoft™ SG220MO is a polypropylene characterized by good flow, high impact and good transparency. This grade contains antistatic and demolding additives which, together with enhanced nucleation, create a high potential for cycle time reduction. Applications: flexible articles which require good flow properties and short cycle time, houseware goods with high impact and transparency at ambient and low temperatures, articles with integral hinges and demands for high gloss, soft and flexible packages, flexible lids, cosmetics, and toys. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borsoft-SG220MO-Polypropylene-Random-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	62	62	ISO 868
Tensile Strength, Yield	20.0 MPa	2900 psi	50mm/min; ISO 527-2
Elongation at Yield	14 %	14 %	50mm/min; ISO 527-2
Tensile Modulus	0.600 GPa	87.0 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.500 J/cm ² @Temperature 0.000 °C	2.38 ft-lb/in ² @Temperature 32.0 °F	ISO 179/1eA
	1.20 J/cm ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	63.0 °C	145 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 250 °C	410 - 482 °F	

Processing Properties	Metric	English	Comments
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Descriptive Properties	Value	Comments
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Injection Velocity	high	
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