

Borealis Borpact™ SE920MO Polypropylene Homopolymer for Injection Molding

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

Material Notes:

Borpact SE920MO is a high impact and transparent polypropylene. Borpact SE920MO is a new generation polypropylene having properties that were earlier not possible to combine. Borpact SE920MO offers an impact normally reached with heterophasic copolymers, but where heterophasic copolymers are opaque. It is transparent. Borpact SE920MO is designed for fast production of articles for packaging and houseware. Examples of products include containers, houseware goods, transparent storage crates and boxes, transparent crates and boxes for industrial handling systems, transparent packaging where high impact is needed, and technical articles where transparency and impact is needed. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borpact-SE920MO-Polypropylene-Homopolymer-for-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	0.905 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	13 g/10 min @Load 2.16 kg, Temperature 230 °C	13 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	67	67	ISO 2039-2
Tensile Strength, Yield	22.99 MPa	3335 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	14 %	14 %	At 50 mm/min; ISO 527-2
Tensile Modulus	0.900 GPa	131 ksi	At 1 mm/min; ISO 527-2
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA
	0.200 J/cm ² @Temperature -20.0 °C	0.952 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA
	0.400 J/cm ² @Temperature 0.000 °C	1.90 ft-lb/in ² @Temperature 32.0 °F	ISO 179/1eA
Impact Test	35.0 J	25.8 ft-lb	Total Penetration Energy; ISO 6603-2
	5.00 J @Temperature -10.0 °C	3.69 ft-lb @Temperature 14.0 °F	Total Penetration Energy; ISO 6603-2
	20.0 J	14.8 ft-lb	Total Penetration Energy; ISO 6603-2

Mechanical Properties	@Temperature 0.000 °C Metric	@Temperature 32.0 °F English	Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.0 °C	162 °F	ISO 75-2
Optical Properties	Metric	English	Comments
Haze	21 % @Thickness 1.00 mm	21 % @Thickness 0.0394 in	plaque; Borealis Method
Transmission, Visible	90 %	90 %	transparent; thickness not quantified
Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 °C	428 - 500 °F	
Mold Temperature	20.0 - 60.0 °C	68.0 - 140 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China