

Borealis Borpact™ SG910MO Polypropylene for Injection Molding

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Borpact™ SG910MO is a high impact and transparent polypropylene. This grade provides high gloss, high transparency and excellent impact properties. Applications: containers and products with medium to long flow length, houseware goods with high impact and transparency at ambient and low temperatures, transparent storage crates and boxes (House wares), transparent crates and boxes for industrial handling systems, transparent packaging where high impact is needed (i.e. pails), and technical articles where transparency and impact is needed (i.e. covers). Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borpact-SG910MO-Polypropylene-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	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, Rockwell R	67	67	ISO 2039-2
Tensile Strength, Yield	23.0 MPa	3340 psi	ISO 527-2
Elongation at Yield	14 %	14 %	ISO 527-2
Tensile Modulus	0.900 GPa	131 ksi	ISO 527-2
Charpy Impact, Notched	0.200 J/cm ² @Temperature -10.0 °C	0.952 ft-lb/in ² @Temperature 14.0 °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
	0.800 J/cm ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Dart Drop, Total Energy	5.00 J @Temperature -10.0 °C	3.69 ft-lb @Temperature 14.0 °F	ISO 6603-2
	20.0 J @Temperature 0.000 °C	14.8 ft-lb @Temperature 32.0 °F	ISO 6603-2

Mechanical Properties	35.0 J Metric	25.8 ft-lb English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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 %	21 %	1mm 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 - 40.0 °C	68.0 - 104 °F	
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

Descriptive Properties	Value	Comments
Injection Velocity	high	

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