

Borealis BJ380MO Polypropylene Copolymer

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

Material Notes:

BJ380MO is a very high melt flow heterophasic copolymer with high/medium impact strength and stiffness. This grade is designed for high-speed injection molding and contains nucleating and antistatic additives. This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage. Components molded from this grade have good demolding properties and combine good stiffness, gloss and antistatic properties with good low-temperature impact strength. Applications: thin wall containers, square containers, closures, lids. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BJ380MO-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.906 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	80 g/10 min @Load 2.16 kg, Temperature 230 °C	80 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	25.0 MPa	3630 psi	50mm/min; ISO 527-2
Elongation at Yield	5.0 %	5.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.30 GPa	189 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
	0.500 J/cm ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Puncture Energy	10.0 J @Temperature -20.0 °C	7.38 ft-lb @Temperature -4.00 °F	ISO 6603-2
	12.0 J @Temperature 0.000 °C	8.85 ft-lb @Temperature 32.0 °F	ISO 6603-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa			

(56 psi) Thermal Properties	93.0 °C Metric	199 °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	20.0 - 50.0 °C	68.0 - 122 °F	
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

Descriptive Properties	Value	Comments
Injection Velocity	highest possible	

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