

Borealis BC650MO Polypropylene Copolymer

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

Material Notes:

BC650MO is a very high impact polypropylene heterophasic copolymer intended for injection molding. This product offers a good UV resistance, further enhanced by pigmentation. This grade features high impact strength, high thermal stability and very good processability. As all polypropylenes, this grade shows excellent stresscracking and chemical resistances. This grade is characterized by combination of good stiffness, good creep resistance and very high impact strength even at low temperatures. This grade is mildly nucleated to maximize the mechanical stiffness. The additive formulation provides a smooth demolding. Nucleation, good flow properties and high stiffness create a high potential for cycle time reduction. Its very good organoleptic properties allows this grade to be used with any masterbatch without discoloring problems. Applications: crates and boxes, pallets, technical parts, bottle trays, and luggage. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BC650MO-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.904 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	4.0 g/10 min @Load 2.16 kg, Temperature 230 °C	4.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	80	80	ISO 2039-2
Tensile Strength, Yield	22.5 MPa	3260 psi	50mm/min; ISO 527-2
Elongation at Yield	5.5 %	5.5 %	50mm/min; ISO 527-2
Tensile Modulus	1.20 GPa	174 ksi	1 mm/min; ISO 527-2
Charpy Impact, Notched	0.750 J/cm ² @Temperature -20.0 °C	3.57 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA
	2.00 J/cm ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Puncture Energy	41.0 J @Temperature -40.0 °C	30.2 ft-lb @Temperature -40.0 °F	ISO 6603-2
	46.0 J @Temperature -20.0 °C	33.9 ft-lb @Temperature -4.00 °F	ISO 6603-2

Mechanical Properties	Metric	English	Comments
	@Temperature 0.000 °C	@Temperature 32.0 °F	ISO 6003-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 260 °C	446 - 500 °F	
Mold Temperature	10.0 - 30.0 °C	50.0 - 86.0 °F	
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

Descriptive Properties	Value	Comments
Injection Velocity	highest possible	

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