

Borealis BC545MO Polypropylene Copolymer

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

Material Notes:

BC545MO is a low-blush polypropylene heterophasic copolymer intended for injection molding. This grade features high impact strength, high thermal stability and very good process ability. As all polypropylenes, this grade shows excellent stress-cracking and chemical resistances. This grade is characterized by combination of high stiffness, very high impact strength and low stress whitening. This grade is mildly nucleated to maximize the stiffness-impact balance. The additive formulation provides long-term heat stability. Its very good organoleptic properties allows this grade to be used with any master batch without discoloring problems. Applications: suitcases, battery cases, crates and boxes, and technical parts. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BC545MO-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.908 g/cc	0.0328 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	3.5 g/10 min @Load 2.16 kg, Temperature 230 °C	3.5 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	25.0 MPa	3630 psi	50mm/min; ISO 527-2
Elongation at Yield	8.0 %	8.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.25 GPa	181 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.600 J/cm ² @Temperature -20.0 °C	2.86 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA
	1.50 J/cm ² @Temperature 23.0 °C	7.14 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Puncture Energy	36.0 J @Temperature 0.000 °C	26.6 ft-lb @Temperature 32.0 °F	ISO 6603-2
	40.0 J @Temperature -20.0 °C	29.5 ft-lb @Temperature -4.00 °F	ISO 6603-2

Thermal Properties	Metric	English	Comments
--------------------	--------	---------	----------

Thermal Properties <small>Deflection Temperature at 0.46 MPa (60 psi)</small>	Metric	English	Comments
--	--------	---------	----------

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	

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