

Borealis BB125MO Polypropylene Copolymer

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

Material Notes:

BB125MO is a heterophasic copolymer. This grade is a low melt flow rate grade intended for blow molding and sheet extrusion, and features extremely good process ability with improved melt strength and melt stability. As all polypropylenes, this grade shows excellent stress-cracking and chemical resistances. This polymer is one of the IMP (improved mechanical stability) grades, and is characterized by very high stiffness without any loss of impact strength even at low temperatures. Its very good organoleptic properties allows this grade to be used with any master batch without discoloring problems. Applications: corrugated boards, and industrial chemicals. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BB125MO-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.906 g/cc	0.0327 lb/in ³	ISO 1183
Melt Flow	1.3 g/10 min	1.3 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	2.3 g/10 min	2.3 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	6.0 g/10 min	6.0 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ISO 2039-2
Tensile Strength, Yield	24.0 MPa	3480 psi	50mm/min; ISO 527-2
Elongation at Yield	4.0 %	4.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.30 GPa	189 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

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
Middle Barrel Temperature	190 - 220 °C	374 - 428 °F	
Die Temperature	180 - 220 °C	356 - 428 °F	
Melt Temperature	180 - 220 °C	356 - 428 °F	

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