

Borealis BE170MO Polypropylene Copolymer

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

Material Notes:

BE170MO is a heterophasic copolymer. This grade is characterized by high impact strength, high stiffness and good flow properties. This grade contains additives providing low taste and odor as well as good process ability and easy demolding. These properties, together with high gloss, make this grade excellent choice for household and packaging articles. Applications: household applications, pails, crates, general packaging, and technical parts. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BE170MO-Polypropylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.902 g/cc	0.0326 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	13 g/10 min @Load 2.16 kg, Temperature 230 °C	13 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	86	86	ISO 2039-2
Tensile Strength, Yield	25.0 MPa	3630 psi	50mm/min; ISO 527-2
Elongation at Yield	6.0 %	6.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.25 GPa	181 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
	0.800 J/cm ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA
Puncture Energy	25.0 J @Temperature -20.0 °C	18.4 ft-lb @Temperature -4.00 °F	ISO 6603-2
	35.0 J @Temperature 0.000 °C	25.8 ft-lb @Temperature 32.0 °F	ISO 6603-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °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	high	

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