

Borealis BorPURE™ RE450MO Polypropylene Random Copolymer

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

Material Notes:

BorPure™ RE450MO is a specially modified highly-transparent polypropylene random copolymer with medium melt flow rate. This grade is characterized by optimum combination of high impact strength and stiffness. It is designed for high-speed injection molding and contains nucleating and demolding additives. BorPure™ RE450MO can be also used in injection stretch blow molding (ISBM). Applications: BorPure™ RE450MO is intended for injection molding applications requiring excellent transparency. This includes: enclosures, lids, pails, sweet-boxes, and bottles. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-BorPURE-RE450MO-Polypropylene-Random-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.905 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	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	85	85	
Tensile Strength, Yield	27.0 MPa	3920 psi	50mm/min; ISO 527-2
Elongation at Yield	13 %	13 %	50mm/min; ISO 527-2
Tensile Modulus	1.00 GPa	145 ksi	1mm/min; ISO 527-3
Charpy Impact, Notched	8.50 J/cm ² @Temperature 23.0 °C	40.4 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.0 °C	162 °F	ISO 75-2

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 260 °C	446 - 500 °F	

Mold Temperature Processing Properties	35.0 °C Metric	95.0 °F English	Comments
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	minimize to avoid sink marks

Descriptive Properties	Value	Comments
Injection Velocity	high	

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