

Borealis RE420MO Polypropylene Random Copolymer, Transparent

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

Material Notes:

RE420MO is a specially modified highly-transparent polypropylene random copolymer with medium melt flow rate. This grade is intended for injection molding and stretch blow molding. and is designed for high-speed injection molding and contains nucleating and demolding additives. Products originating from this grade have excellent transparency, very good organoleptic properties, good balance of stiffness and impact strength at ambient temperature, low blooming and good demolding properties. Applications: excellent transparency, lids, pails, closures, sweet-boxes, bottles, and houseware containers. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-RE420MO-Polypropylene-Random-Copolymer-Transparent.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	80	80	ISO 2039-2
Tensile Strength, Yield	28.0 MPa	4060 psi	50mm/min; ISO 527-2
Elongation at Yield	12 %	12 %	50mm/min; ISO 527-2
Tensile Modulus	1.10 GPa	160 ksi	1mm/min; ISO 527-3
Charpy Impact, Notched	0.600 J/cm ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	75.0 °C	167 °F	ISO 75-2

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

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 260 °C	410 - 500 °F	

Mold Temperature Processing Properties	30.0 - 40.0 °C Metric	86.0 - 104 °F English	Comments
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

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