

Borealis RD360MO Polypropylene Random Copolymer, Transparent

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

Material Notes:

RD360MO is a specially modified highly-transparent polypropylene random copolymer with medium melt flow rate. This grade is designed for high-speed injection molding and contains nucleating and antistatic additives. Products molded from this grade exhibit excellent transparency, good gloss, high impact strength at ambient temperature, relatively high stiffness and good demolding and antistatic properties. Applications: closures, lids, and pails. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-RD360MO-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	8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	8.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ISO 2039-2
Tensile Strength, Yield	31.0 MPa	4500 psi	50mm/min; ISO 527-2
Elongation at Yield	11 %	11 %	50mm/min; ISO 527-2
Tensile Modulus	1.25 GPa	181 ksi	1mm/min; ISO 527-2
Flexural Modulus	1.25 GPa	181 ksi	ISO 527-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	82.0 °C	180 °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	30.0 - 40.0 °C	86.0 - 104 °F	
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Injection Velocity		high	

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