

Borealis RG460MO Polypropylene, Transparent Random Copolymer

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

Material Notes:

RG460MO is a specially modified transparent polypropylene random copolymer with high melt flow. and is designed for high-speed injection molding and contains nucleating and demolding additives. Products originating from this grade have excellent transparency, relatively good impact strength at ambient temperatures, good organoleptic and demolding properties without plate-out or blooming issues. This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage. Applications: square containers, closures, lids, and pails

Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-RG460MO-Polypropylene-Transparent-Random-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.906 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	30 g/10 min @Load 2.16 kg, Temperature 230 °C	30 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	27.0 MPa	3920 psi	50mm/min; ISO 527-2
Elongation at Yield	13 %	13 %	50mm/min; ISO 527-2
Tensile Modulus	1.05 GPa	152 ksi	1mm/min; ISO 527-2
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	15.0 - 40.0 °C Metric	59.0 - 104 °F English	Comments
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

Descriptive Properties	Value	Comments
Injection Velocity	high	

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