

Borealis RJ900MO Polypropylene Random Copolymer

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

Material Notes:

RJ900MO is a polypropylene random copolymer with high melt flow and good transparency. Products originating from this grade have excellent transparency and gloss, and good balance of stiffness and impact strength at ambient temperatures. Nucleation, good flow properties and high stiffness create a high potential for cycle time reduction. Applications: articles with rather long and narrow flow lengths, products with complicated geometry, house ware and thin wall packaging, and transparent storage crates and boxes (House wares). Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-RJ900MO-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	110 g/10 min @Load 2.16 kg, Temperature 230 °C	110 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	30.0 MPa	4350 psi	50mm/min; ISO 527-2
Elongation at Yield	12 %	12 %	50mm/min; ISO 527-2
Tensile Modulus	1.20 GPa	174 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.400 J/cm ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	84.0 °C	183 °F	ISO 75-2

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

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 250 °C	392 - 482 °F	
Mold Temperature	15.0 - 40.0 °C	59.0 - 104 °F	

Descriptive Properties	Value	Comments
Injection Velocity	high	

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