

## Borealis RJ470MO Polypropylene, Transparent Random Copolymer

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

### Material Notes:

RJ470MO is a specially modified highly-transparent polypropylene random copolymer with very high melt flow rate and is designed for high-speed injection molding and contains nucleating and demolding additives. Additivation has been optimized to provide good antistatic and demolding properties without blooming or plate-out problems. This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage. Products originating from this grade have excellent transparency and gloss, and good balance of stiffness and impact strength at ambient temperatures. Applications: lids, square containers, and square boxes. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-RJ470MO-Polypropylene-Transparent-Random-Copolymer.php](http://www.lookpolymers.com/polymer_Borealis-RJ470MO-Polypropylene-Transparent-Random-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	70 g/10 min @Load 2.16 kg, Temperature 230 °C	70 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	88	88	ISO 2039-2
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	0.550 J/cm <sup>2</sup> @Temperature 23.0 °C	2.62 ft-lb/in <sup>2</sup> @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
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Melt Temperature Processing Properties	200 - 250 °C Metric	392 - 482 °F English	Comments
Mold Temperature	15.0 - 40.0 °C	59.0 - 104 °F	
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

Descriptive Properties	Value	Comments
Injection Velocity	high	

## Contact Songhan Plastic Technology Co.,Ltd.

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