

## Borealis Borclear™ RF366MO Polypropylene Random Copolymer for Injection Molding

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

### Material Notes:

Borclear™ RF366MO 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. The improved processability, even at low melt temperature, allows energy savings and faster cycle time. Products originating from this grade have excellent transparency, good organoleptic properties, good balance of stiffness and impact strength at ambient temperatures. These properties, together with high gloss, make this grade excellent choice for household and packaging articles. Borclear™ RF366MO can be also used in injection stretch blow molding (ISBM). Applications: Borclear™ RF366MO is intended for injection molding applications requiring excellent transparency, including thin wall packaging, houseware containers, caps and closures, sweet-boxes, cosmetics, appliances, and baby bottles. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Borclear-RF366MO-Polypropylene-Random-Copolymer-for-Injection-Molding.php](http://www.lookpolymers.com/polymer_Borealis-Borclear-RF366MO-Polypropylene-Random-Copolymer-for-Injection-Molding.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	20 g/10 min @Load 2.16 kg, Temperature 230 °C	20 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	29.0 MPa	4210 psi	50mm/min; ISO 527-2
Elongation at Yield	11 %	11 %	ISO 527-2
Tensile Modulus	1.20 GPa	174 ksi	1mm/min; ISO 527-3
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)	80.0 °C	176 °F	ISO 75-2

Optical Properties	Metric	English	Comments
Haze	4.0 %	4.0 %	1mm plaque; Borealis Method
	10 %	10 %	2mm plaque; Borealis Method

Optical Properties	Metric	English	Comments
Transmission, Visible	30%	50%	clear, thickness not quantified

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 260 °C	392 - 500 °F	
Mold Temperature	30.0 - 40.0 °C	86.0 - 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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