

Borealis RG435MO Polypropylene, Transparent Random Copolymer

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

Material Notes:

RG435MO is a specially modified highly-transparent polypropylene random copolymer with medium melt flow rate. 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. These properties, together with high gloss, make this grade excellent choice for household and packaging articles. Applications: transparent packaging where high impact is needed (i.e. pails), houseware containers, food packaging, sweet-boxes, caps and closures, and lids. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-RG435MO-Polypropylene-Transparent-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	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	75	75	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	0.850 GPa	123 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.800 J/cm ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °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	30.0 - 40.0 °C Metric	86.0 - 104 °F English	Comments
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

Descriptive Properties	Value	Comments
Injection Velocity	medium to high	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China