

Borealis Bormod™ HF955MO Polypropylene Homopolymer for Injection Molding

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

Material Notes:

Bormod HF955MO is a high modulus polypropylene homopolymer. Bormod HF955MO is especially developed within the proprietary Borstar technology. The grade utilizes the unique Borstar reactor design capabilities for high crystallinity polypropylene production in combination with the specific Borstar nucleation technology. This combination gives Bormod HF955MO an unique balance of properties for high speed injection molding technology allowing fast cycle due to high de-molding temperature as well as reduced cooling time. Bormod HF955MO is designed for fast production of articles for packaging and houseware. Examples include containers and products with medium to long flow lengths, houseware goods for ambient temperature use, rectangular and flat products, caps and closures with integral hinges, and products with thicker wall sections requiring short cycle time. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Bormod-HF955MO-Polypropylene-Homopolymer-for-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	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
Hardness, Rockwell R	112	112	ISO 2039-2
Tensile Strength, Yield	40.00 MPa	5801 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	6.0 %	6.0 %	At 50 mm/min; ISO 527-2
Tensile Modulus	2.20 GPa	319 ksi	At 1 mm/min; ISO 527-2
Charpy Impact, Notched	0.250 J/cm ²	1.19 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	122 °C	252 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 °C	428 - 500 °F	
Mold Temperature	30.0 - 60.0 °C	86.0 - 140 °F	

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