

Borealis Bormed™ HF840MO Polypropylene Homopolymer for Medical Applications

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

Material Notes:

Bormed HF840MO is a polypropylene homopolymer intended for injection molding and is modified with an internal lubricant for products requiring a low surface friction (e.g. two-part syringes). Bormed HF840MO is used in medical devices such as syringe barrels, needle covers, catheter connections, screw caps and closures, and medical valves. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Bormed-HF840MO-Polypropylene-Homopolymer-for-Medical-Applications.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	19 g/10 min @Load 2.16 kg, Temperature 230 °C	19 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	93	93	ISO 2039-2
Tensile Strength, Yield	29.5 MPa	4280 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	11 %	11 %	At 50 mm/min; ISO 527-2
Tensile Modulus	1.25 GPa	181 ksi	At 1 mm/min; ISO 527-2
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 260 °C	410 - 500 °F	
Mold Temperature	30.0 - 40.0 °C	86.0 - 104 °F	

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