

Borealis HH450MO Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

HH450MO is a polypropylene homopolymer intended for injection molding. This grade is especially suitable for high-speed injection molding of articles demanding easy flow. This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage. Applications: containers and products with medium to long flow length, rectangular and flat products like lids and trays, pharmaceutical & diagnostic packaging, and medical applications. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HH450MO-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.902 g/cc	0.0326 lb/in ³	ISO 1183
Melt Flow	37 g/10 min @Load 2.16 kg, Temperature 230 °C	37 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ISO 2039-2
Tensile Strength, Yield	34.0 MPa	4930 psi	50mm/min; ISO 527-2
Elongation at Yield	9.0 %	9.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.65 GPa	239 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.200 J/cm ² @Temperature 23.0 °C	0.952 ft-lb/in ² @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

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 °C	428 - 500 °F	
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

Descriptive Properties	Value	Comments
Injection Velocity	high	

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