Borealis HG430MO Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

HG430MO is a polypropylene homopolymer intended for injection molding. This polymer product is characterized by a superior impact resistance. This grade has ductile failure in falling weight impact test at room temperature. This product is characterized by excellent flow properties combined with a narrow molecular weight distribution well suited for low distortion products. This grade contains anti-static and slip additives, which result in short cycle time, good demolding and low dust attraction. Applications: caps and closures, and items requiring good antistatic properties.Information provided by Borealis AG

Order this product through the following link:
http://www.lookpolymers.com/polymer_Borealis-HG430MO-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in³	ISO 1183
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	25 g/10 min @Load 2.16 kg, Temperature 230 °C	25 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	91	91	ISO 2039-2
Tensile Strength, Yield	33.0 MPa	4790 psi	50mm/min; ISO 527-2
Elongation at Yield	11 %	11 %	50mm/min; ISO 527-2
Tensile Modulus	1.40 GPa	203 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.350 J/cm² @Temperature 23.0 °C	1.67 ft-lb/in² @Temperature 73.4 °F	ISO 179/1eA
Puncture Energy	40.0 J	29.5 ft-lb	ISO 6603-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.0 °C	199 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 260 °C	428 - 500 °F	
Mold Temperature	10.0 - 30.0 °C	50.0 - 86.0 °F	

Processing Properties	Metric	English	Comments
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

Descriptive Properties	Value	Comments
Injection Velocity	highest possible	

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