

Borealis HJ325MO Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

HJ325MO is a polypropylene homopolymer intended for injection molding. Its very high melt flow makes it especially suitable for thin-wall packaging and products with long flow length. is designed for high-speed injection molding and contains nucleating and antistatic additives. The additives are optimized to provide reduced tendency for mould plate-out. This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage. Components molded from this grade show good ejection and combine good stiffness with good transparency and gloss, good antistatic properties and good impact strength at ambient temperatures.

Applications: thin wall containers, square containers, rectangular and flat products like lids and trays, caps and closures. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HJ325MO-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	50 g/10 min @Load 2.16 kg, Temperature 230 °C	50 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	101	101	ISO 2039-2
Tensile Strength, Yield	35.0 MPa	5080 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)	103 °C	217 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 250 °C	410 - 482 °F	
Mold Temperature	10.0 - 30.0 °C	50.0 - 86.0 °F	

Hold Pressure Processing Properties	20.0 - 50.0 MPa Metric	2900 - 7250 psi English	Comments
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Descriptive Properties	Value	Comments
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Injection Velocity	high	
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