

## Borealis HJ320MO Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

HJ320MO 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. This grade is characterized by the unique combination of very high flow, excellent stiffness and excellent organoleptic properties. This grade is designed for high-speed injection molding and contains nucleating and antistatic additives. Components molded from this grade show good ejectability and combine excellent stiffness with good transparency and gloss, very good color, excellent organoleptic properties and good impact strength at ambient temperatures. Applications: thin wall containers, closures, and products with thicker wall sections requiring short cycle time. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-HJ320MO-Polypropylene.php](http://www.lookpolymers.com/polymer_Borealis-HJ320MO-Polypropylene.php)

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	55 g/10 min @Load 2.16 kg, Temperature 230 °C	55 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	ISO 2039-2
Tensile Strength, Yield	38.0 MPa	5510 psi	50mm/min; ISO 527-2
Elongation at Yield	7.5 %	7.5 %	50mm/min; ISO 527-2
Tensile Modulus	1.80 GPa	261 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.200 J/cm <sup>2</sup> @Temperature 23.0 °C	0.952 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	115 °C	239 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 250 °C	410 - 482 °F	
Mold Temperature	30.0 - 40.0 °C	86.0 - 104 °F	
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Injection Velocity		high	

## Contact Songhan Plastic Technology Co.,Ltd.

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