

## Borealis HD120MO Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

HD120MO is a polypropylene homopolymer with a good combination of mechanical properties intended for injection molding. Applications: sanitary equipment, caps and closures, and general packaging. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-HD120MO-Polypropylene.php](http://www.lookpolymers.com/polymer_Borealis-HD120MO-Polypropylene.php)

Physical Properties	Metric	English	Comments
Density	0.908 g/cc	0.0328 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	8.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	98	98	ISO 2039-2
Tensile Strength, Yield	33.5 MPa	4860 psi	50mm/min; ISO 527-2
Elongation at Yield	9.0 %	9.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.50 GPa	218 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.400 J/cm <sup>2</sup> @Temperature 23.0 °C	1.90 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)	88.0 °C	190 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 260 °C	446 - 500 °F	
Mold Temperature	10.0 - 30.0 °C	50.0 - 86.0 °F	
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

Descriptive Properties	Value	Comments
Injection Velocity	as high as possible	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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