

## Borealis HG313MO Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

HG313MO is a polypropylene homopolymer intended for injection molding. Its high melt flow makes it especially suitable for products with long flow length. This grad is designed for high-speed injection molding and contains nucleating, antistatic and slip additives. This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage. Products originating from this grade have very good demolding and anti-static properties, high stiffness, good transparency and gloss, 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-HG313MO-Polypropylene.php](http://www.lookpolymers.com/polymer_Borealis-HG313MO-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	30 g/10 min @Load 2.16 kg, Temperature 230 °C	30 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	34.0 MPa	4930 psi	50mm/min; ISO 527-2
Elongation at Yield	10 %	10 %	50mm/min; ISO 527-2
Tensile Modulus	1.50 GPa	218 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.250 J/cm <sup>2</sup> @Temperature 23.0 °C	1.19 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)	95.0 °C	203 °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	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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