

## Borealis HH315MO Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

HH315MO is a polypropylene homopolymer intended for injection molding. Its high melt flow makes it especially suitable for products with long flow length. This grade 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 excellent demolding properties, very 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, 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-HH315MO-Polypropylene.php](http://www.lookpolymers.com/polymer_Borealis-HH315MO-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	35 g/10 min @Load 2.16 kg, Temperature 230 °C	35 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	102	102	ISO 2039-2
Tensile Strength, Yield	36.0 MPa	5220 psi	50mm/min; ISO 527-2
Elongation at Yield	8.0 %	8.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.65 GPa	239 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)	105 °C	221 °F	ISO 75-2

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 250 °C	410 - 482 °F	
Mold Temperature	15.0 - 60.0 °C	59.0 - 140 °F	
Hold Pressure	20.0 - 50.0 MPa	2900 - 7250 psi	

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

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