

Borealis HF136MO Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

HF136MO is a polypropylene homopolymer intended for injection molding. This grade is characterized by a good combination of mechanical and flow properties. This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage. Applications: caps and closures
Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-HF136MO-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.908 g/cc	0.0328 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.010 - 0.020 cm/cm	0.010 - 0.020 in/in	
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 230 °C	20 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	9.0 %	9.0 %	50mm/min; ISO 527-2
Tensile Modulus	1.50 GPa	218 ksi	1mm/min; ISO 527-2
Charpy Impact, Notched	0.350 J/cm ² @Temperature 23.0 °C	1.67 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.0 °C	198 °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		

Descriptive Properties	highest possible Value	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China