

Borealis MB350WG Polypropylene Compound, Mineral Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Mineral Reinforced

Material Notes:

MB350WG is a 30% mineral filled polypropylene compound intended for injection molding. This material has a very high impact strength while maintaining good stiffness and is easy to process. Applications: washing machine parts, and dishwashers components. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-MB350WG-Polypropylene-Compound-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	Borealis Method; average process
Melt Flow	2.5 g/10 min	2.5 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	11.2 g/10 min	11.2 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	71.0 MPa	10300 psi	358 N/30s; ISO 2039
Tensile Strength, Yield	29.0 MPa	4210 psi	ISO 527-2
Elongation at Yield	5.4 %	5.4 %	50mm/min; ISO 527-2
Tensile Modulus	2.95 GPa	428 ksi	1mm/min; ISO 527-2
Flexural Strength	45.0 MPa	6530 psi	ISO 178
Flexural Modulus	3.10 GPa	450 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	1.70 J/cm ²	8.09 ft-lb/in ²	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	5.50 J/cm ²	26.2 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.150 J/cm ²	0.714 ft-lb/in ²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.450 J/cm ²	2.14 ft-lb/in ²	ISO 179/1eA

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	122 °C	252 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	ISO 75-2
Vicat Softening Point	83.0 °C	181 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	155 °C	311 °F	ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Processing Properties	Metric	English	Comments
Processing Temperature	220 - 260 °C	428 - 500 °F	mass temperature
Feed Temperature	40.0 - 80.0 °C	104 - 176 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Injection Velocity	100 - 200 mm/sec	3.94 - 7.87 in/sec	
Hold Pressure	30.0 - 60.0 MPa	4350 - 8700 psi	

Descriptive Properties	Value	Comments
Back Pressure	low to medium	
Screw Speed	low to medium	

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