

Borealis GB366WG Polypropylene Compound, Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 30% Glass Fiber Filler

Material Notes:

GB366WG is a 30% chemically coupled glass fiber reinforced polypropylene compound intended for injection molding. The product is available in natural but other colors can be provided on request. This material shows excellent mechanical properties also at elevated temperatures. Applications GB366WG has been developed especially for applications like: pump housings, tubs for washing machines, and miscellaneous technical components for the white goods industry. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-GB366WG-Polypropylene-Compound-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	average process; in flow; 150x80x2mm
	0.011 cm/cm	0.011 in/in	average process; cross flow; 150x80x2mm
Melt Flow	2.0 g/10 min	2.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	112 MPa	16200 psi	358 N/30s; ISO 2039
Tensile Strength, Yield	100 MPa	14500 psi	ISO 527-2
Elongation at Break	3.3 %	3.3 %	50mm/min; ISO 527-2
Tensile Modulus	6.90 GPa	1000 ksi	1mm/min; ISO 527-2
Flexural Strength	135 MPa	19600 psi	ISO 178
Flexural Modulus	6.00 GPa	870 ksi	2mm/min; ISO 178
Izod Impact, Notched (ISO)	8.50 kJ/m ²	4.04 ft-lb/in ²	ISO 180/1A
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	11.0 kJ/m ²	5.23 ft-lb/in ²	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	4.90 J/cm ²	23.3 ft-lb/in ²	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	5.80 J/cm ²	27.6 ft-lb/in ²	

Mechanical Properties	Metric	English	ISO 179/1eJ Comments
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	159 °C	318 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	143 °C	289 °F	ISO 75-2
Vicat Softening Point	135 °C	275 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	164 °C	327 °F	ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Processing Properties	Metric	English	Comments
Processing Temperature	230 - 280 °C	446 - 536 °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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