

Borealis Xmod™ GD301FE Polypropylene, Glass Fiber Reinforced

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

Material Notes:

Xmod™ GD301FE is a 30 % chemically coupled high performance glass fiber reinforced polypropylene compound intended for injection molding. This material shows excellent mechanical properties also at elevated temperatures. The product is available in standard black 9502. Applications: front end carriers, door module carriers, fans and shrouds, pump housings, pedal carriers, and air bag housings. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Xmod-GD301FE-Polypropylene-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0095 cm/cm	0.0095 in/in	Borealis Method
Melt Flow	4.5 g/10 min @Load 2.16 kg, Temperature 230 °C	4.5 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	106 MPa	15400 psi	ISO 527-2
Elongation at Break	3.2 %	3.2 %	50mm/min; ISO 527-2
Tensile Modulus	7.50 GPa	1090 ksi	1mm/min; ISO 527-2
Flexural Strength	145 MPa	21000 psi	ISO 178
Flexural Modulus	6.50 GPa	943 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	5.40 J/cm ² @Temperature -20.0 °C	25.7 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eU
	5.90 J/cm ² @Temperature 23.0 °C	28.1 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	1.10 J/cm ² @Temperature 23.0 °C	5.23 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (69 psi)	148 °C	298 °F	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	158 °C	316 °F	ISO 75-2
Vicat Softening Point	139 °C @Load 5.10 kg	282 °F @Load 11.2 lb	ISO 306

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	1667 - 3333 mm/sec	65.63 - 131.2 in/sec	
Hold Pressure	3.00 - 6.00 MPa	435 - 870 psi	

Descriptive Properties	Value	Comments
Back Pressure	as low as possible	
Emission (µgC/g)	< 50	VDA 277
Fogging (mg)	< 2	DIN 75201
Screw Speed	low to medium	

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