

Borealis Xmod™ GB306SAF Polypropylene, Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Glass Fiber Filler

Material Notes:

Xmod™ GB306SAF is a 35 % chemically coupled high performance glass fiber reinforced polypropylene compound intended for injection molding. The product is available in standard black 9502. This material shows excellent mechanical properties also at elevated temperatures. Applications: Xmod™ GB306SAF has been developed especially for demanding applications in under the bonnet applications, air intake manifolds, parts for cooling systems, fans and shrouds, and technical components exposed to high heat and loads. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Xmod-GB306SAF-Polypropylene-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	average process; in flow; 150x80x2mm
	0.0080 - 0.012 cm/cm	0.0080 - 0.012 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
Tensile Strength at Break	118 MPa	17100 psi	ISO 527-2
Elongation at Break	2.8 %	2.8 %	50mm/min; ISO 527-2
Tensile Modulus	9.00 GPa	1310 ksi	1mm/min; ISO 527-2
Flexural Strength	170 MPa	24700 psi	ISO 178
Flexural Modulus	8.00 GPa	1160 ksi	2mm/min; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 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	5.40 J/cm ²	25.7 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	ISO 179/1eU

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	154 °C	309 °F	ISO 75-2
Vicat Softening Point	142 °C	288 °F	ISO 306
	@Load 5.10 kg	@Load 11.2 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	1667 - 3333 mm/sec	65.63 - 131.2 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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