

## Borealis Xmod™ GD302HP Polypropylene, Glass Fiber Reinforced

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

### Material Notes:

Xmod™ GD302HP is a 30 % chemically coupled high performance glass fiber reinforced polypropylene compound intended for injection molding. This material has an excellent balance between impact strength and stiffness and is easy to process. Applications: dashboard carriers, door module carriers, and structural seat parts. Information provided by Borealis AG

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Xmod-GD302HP-Polypropylene-Glass-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_Borealis-Xmod-GD302HP-Polypropylene-Glass-Fiber-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.00060 cm/cm	0.00060 in/in	average process; in flow; 150x80x2mm
	0.00080 cm/cm	0.00080 in/in	average process; cross flow; 150x80x2mm
Melt Flow	3.3 g/10 min	3.3 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, Yield	65.0 MPa	9430 psi	ISO 527-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-2
Tensile Modulus	5.60 GPa	812 ksi	1mm/min; ISO 527-2
Flexural Strength	86.0 MPa	12500 psi	ISO 178
Flexural Modulus	5.10 GPa	740 ksi	2mm/min; ISO 178
Izod Impact, Notched (ISO)	16.0 kJ/m <sup>2</sup>	7.61 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	28.0 kJ/m <sup>2</sup>	13.3 ft-lb/in <sup>2</sup>	ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	6.00 J/cm <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	6.50 J/cm <sup>2</sup>	30.9 ft-lb/in <sup>2</sup>	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.30 J/cm <sup>2</sup>	6.19 ft-lb/in <sup>2</sup>	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	ISO 179/1eA Comments
	2.40 J/cm <sup>2</sup>	11.4 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	132 °C	270 °F	ISO 75-2

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	as low as possible	
Screw Speed	low to medium	

## Contact Songhan Plastic Technology Co.,Ltd.

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