

Borealis Nepol™ GB601HP Polypropylene, 30% Long Glass Fiber Reinforced w/HK060AE

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

Material Notes:

Nepol™ GB601HP is a special long glass fiber reinforced polypropylene concentrate grade intended for injection molding and extrusion. This material is designed for the dilution process in combination with special developed dilution polypropylene grades, preferably homopolymer HK060AE or copolymer BJ356MO. This combination of concentrate- dilution polypropylene should be then adjusted for a glass fiber content range of 20-40% in the end product. Applications: Electrical components, load bearing automotive parts, force transmission parts, front end carriers, dashboard carriers and door module carriers. Information provided by Borealis AG

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Nepol-GB601HP-Polypropylene-30-Long-Glass-Fiber-Reinforced-wHK060AE.php

Physical Properties	Metric	English	Comments
Filler Content	30 %	30 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 527-2
Elongation at Break	2.4 %	2.4 %	ISO 527-2
Tensile Modulus	8.10 GPa	1170 ksi	ISO 527-2
Flexural Strength	170 MPa	24700 psi	3.3% strain; ISO 178
Flexural Modulus	7.30 GPa	1060 ksi	ISO 178
Charpy Impact Unnotched	4.20 J/cm ²	20.0 ft-lb/in ²	ISO 179/1fU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	4.70 J/cm ²	22.4 ft-lb/in ²	ISO 179/1fU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	5.50 J/cm ²	26.2 ft-lb/in ²	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.65 J/cm ²	7.85 ft-lb/in ²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Dart Drop, Total Energy	12.0 J	8.85 ft-lb	3200N, 6mm deflection; ISO 6603
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Processing Properties	Metric	English	Comments
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Feed Temperature Processing Properties	220 - 240 °C Metric	428 - 464 °F English	Comments
Melt Temperature	240 - 270 °C	464 - 518 °F	
Mold Temperature	60.0 - 100 °C	140 - 212 °F	
Injection Velocity	20.0 - 30.0 mm/sec	0.787 - 1.18 in/sec	
Injection Pressure	30.0 - 60.0 MPa	4350 - 8700 psi	
Screw Speed	30 - 150 rpm	30 - 150 rpm	

Descriptive Properties	Value	Comments
Back Pressure	0-10% of injection pressure	
Hold Pressure	50-70% of injection pressure	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China