

Borealis Nepol™ GB303HP 30% Long Glass Fiber Reinforced Polypropylene

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

Material Notes:

Nepol GB303HP is a 30% long glass fiber reinforced polypropylene grade, produced using Borealis` propriety and exclusive, patented Nepol technology intended for injection molding and extrusion. The long glass fibers, chemically coupled to the polypropylene matrix, are providing Nepol GB303HP with outstanding mechanical properties such as high strength, high stiffness and excellent impact resistance. Nepol GB303HP has been designed for front end carriers, structural parts, dashboard carriers, door module carriers, and lead bearing automotive parts. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Nepol-GB303HP-30-Long-Glass-Fiber-Reinforced-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in³	ISO 1183
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	Borealis Method
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 230 °C	2.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Elongation at Break	2.1 %	2.1 %	ISO 527-2
Tensile Modulus	7.40 GPa	1070 ksi	At 1 mm/min; ISO 527-2
Charpy Impact Unnotched	4.70 J/cm²	22.4 ft-lb/in²	ISO 179/1eU
	4.10 J/cm² @Temperature -20.0 °C	19.5 ft-lb/in² @Temperature -4.00 °F	ISO 179/1eU
Charpy Impact, Notched	2.30 J/cm²	10.9 ft-lb/in²	ISO 179/1eA
	2.60 J/cm² @Temperature -20.0 °C	12.4 ft-lb/in² @Temperature -4.00 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	ISO 75-2
Vicat Softening Point	145 °C	293 °F	B (50N); ISO 306
Shrinkage	1.70 % @Temperature 90.0 °C, Time 7200 sec	1.70 % @Temperature 194 °F, Time 2.00 hour	Post Shrinkage; Borealis Method

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Front Barrel Temperature	220 - 240 °C	428 - 464 °F	
Melt Temperature	240 - 270 °C	464 - 518 °F	
Mold Temperature	60.0 - 100 °C	140 - 212 °F	
Screw Speed	30 - 150 rpm	30 - 150 rpm	

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