

GEHR Plastics Noryl PPO-30 GF 30% Glass Filled (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 30% Glass Filled

Material Notes:

PPO-30 GF is reinforced with 30% glass fiber for higher thermal properties and better dimensional stability. PPO belongs to the group of the amorphous materials and can be used in temperatures ranging from -58 °F to +302 °F. PPO exhibits a high impact strength and a very high dimensional stability. The electrical properties will not be influenced by the surrounding frequencies and therefore can be used in a lot of applications in electrical engineering. Main Characteristics: high dimensional stability; low tendency to creep; high thermostability; high impact strength; good electrical characteristics over a far frequency range; high resistance to hydrolysis; self-extinguishing Information provided by GEHR Plastics, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GEHR-Plastics-Noryl-PPO-30-GF-30-Glass-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Water Absorption	0.0060 %	0.0060 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	108	108	ASTM D785
Tensile Strength at Break	121 MPa	17500 psi	ASTM D1708
Elongation at Break	5.0 %	5.0 %	ASTM D1708
Modulus of Elasticity	7.79 GPa	1130 ksi	ASTM D638
Flexural Strength	172 MPa	25000 psi	ASTM D 790
Izod Impact, Notched (ISO)	4.62 kJ/m ²	2.20 ft-lb/in ²	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	0.702 μm/m-°C	0.390 μin/in-°F	ASTM D696
Maximum Service Temperature, Air	110 °C	230 °F	
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	HDT/A; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	285 °F	HDT/B; ASTM D648
Minimum Service Temperature, Air	-50.0 °C	-58.0 °F	
Flammability, UL94	V-1	V-1	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	ASTM D257
Surface Resistivity per Square	1.00×10^{14} ohm	1.00×10^{14} ohm	ASTM D257
Dielectric Strength	20.9 kV/mm	530 kV/in	ASTM D139
Comparative Tracking Index	325 V	325 V	VDE 0303

Descriptive Properties	Value	Comments
Acid Resistance	Yes	
Aromatic Resistance	No	
Bondability	Yes	
CKW Resistance	No	
Hydrocarbonate Resistance	Limited	
Hydroxide Resistance	Yes	
Ketone Resistance	No	
Physiological indifference according	On Request	
Resistance to Hot Water	Yes	
UV Stabilization	Limited	

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