

GEHR Plastics PPE-30GF Polyphenylene Ether, 30% Glass Fiber (discontinued **)

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

Material Notes:

The 30% glass fiber reinforced PPE has an improved dimensional stability, a very high stiffness and heat resistance that allows further uses.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GEHR-Plastics-PPE-30GF-Polyphenylene-Ether-30-Glass-Fiber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ISO 1183
Water Absorption	0.20 %	0.20 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	89	89	DIN 53505
Ball Indentation Hardness	130 MPa	18900 psi	ISO 2039
Tensile Strength at Break	100 MPa	14500 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ISO 527
Modulus of Elasticity	8.00 GPa	1160 ksi	ISO 527
Flexural Strength	125 MPa	18100 psi	3.5%; ISO 178
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 µm/m-°C	16.7 µin/in-°F	DIN 53752
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.280 W/m-K	1.94 BTU-in/hr-ft ² -°F	DIN 52612
Maximum Service Temperature, Air	110 °C	230 °F	
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °F	ISO 75
Vicat Softening Point	145 °C	293 °F	VST/B/50; ISO 306
	155 °C	311 °F	VST/A/50; ISO 306

Thermal Properties	Metric	English	Comments
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	VDE 0303
Surface Resistivity per Square	$\geq 1.00 \times 10^{13}$ ohm	$\geq 1.00 \times 10^{13}$ ohm	VDE 0303
Dielectric Constant	2.9	2.9	DIN 53483
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	18.0 kV/mm	457 kV/in	VDE 0303
Dielectric Loss Index	0.0015	0.0015	DIN 53483
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	250 V	250 V	CTI; IEC 60112

Descriptive Properties	Value	Comments
Acid Resistance	yes	
Aromatic Resistance	no	
Bondability	yes	
CKW Resistance	no	
Color	Natural	
Hydrocarbonate Resistance	limited	
Hydroxide Resistance	yes	
Ketone Resistance	yes	
Physiological indifference according	no	
Resistance Against Hot Water	yes	
UV Stabilization	limited	

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