

GEHR Plastics PP-30GF Polypropylene, 30% Glass Fiber

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

Material Notes:

Polypropylene shows a high mechanical strength and a tensile strength, but a low notched impact strength. PP resists stress cracking and it is easy to weld. At minus temperatures it can get brittle. The chemical and electrical properties are very good. The continuous operating temperatures ranges between 5°C and 100°C. Properties: low weight, high heat resistance, high tensile strength, high surface strength, high chemical resistance, low oxidation resistance, low abrasion resistance, brittle in the cold, HF-welding not possible, natural color is not weather resistant. Applications: pumps, valves, gaskets, supporting stands, spacer for the plating particles for toys. PP-30GF has 30% glass fiber reinforcement with improved dimensional stability, high stiffness, and high resistance to heat.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GEHR-Plastics-PP-30GF-Polypropylene-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ISO 1183

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	110 MPa	16000 psi	ISO 2039
Tensile Strength at Break	85.0 MPa	12300 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Modulus of Elasticity	6.50 GPa	943 ksi	ISO 527
Flexural Strength	120 MPa	17400 psi	3.5%; ISO 178
Charpy Impact Unnotched	2.20 J/cm ²	10.5 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 μm/m-°C @Temperature 20.0 °C	38.9 μin/in-°F @Temperature 68.0 °F	DIN 53752
Thermal Conductivity	0.270 W/m-K	1.87 BTU-in/hr-ft ² -°F	DIN 52612
Maximum Service Temperature, Air	100 °C	212 °F	
Deflection Temperature at 0.46 MPa (66 psi)	155 °C	311 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °F	ISO 75

Vicat Softening Point Thermal Properties	130 Å°C Metric	266 Å°F English	VST/R/50: ISO 306 Comments
	160 Å°C	320 Å°F	VST/A/50; ISO 306
Minimum Service Temperature, Air	5.00 Å°C	41.0 Å°F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	VDE 0303
Surface Resistivity per Square	>= 1.00e+13 ohm	>= 1.00e+13 ohm	VDE 0303
Dielectric Constant	2.6 @Frequency 1.00e+6 Hz	2.6 @Frequency 1.00e+6 Hz	DIN 53483
Dielectric Strength	40.0 kV/mm	1020 kV/in	VDE 0303
Comparative Tracking Index	>= 600 V	>= 600 V	KB; IEC 60112

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

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