

GEHR Plastics PP-30PET-F Polypropylene, 30% PET Fiber Reinforced (discontinued **)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polypropylene (PP)

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 coldness HF-welding not possible natural color is not weather resistant strong relationship between mechanical and impact strength fracture behavior is splinter-proof for passive safety good acoustic characteristics Applications pumps valves gasket supporting stand spacer for the plating particles for toys PP-30PET-F is 30% PET fiber reinforced and has optimized stiffness with an improved notched impact strength at the same time.

Order this product through the following link:

http://www.lookpolymers.com/polymer_GEHR-Plastics-PP-30PET-F-Polypropylene-30-PET-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 g/cc	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	27.0 MPa	3920 psi	ISO 527
Tensile Strength, Yield	31.0 MPa	4500 psi	ISO 527
Elongation at Break	24 %	24 %	ISO 527
Elongation at Yield	19 %	19 %	ISO 527
Modulus of Elasticity	1.90 GPa	276 ksi	ISO 527
Charpy Impact, Notched	5.10 J/cm ²	24.3 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 °C	212 °F	
Deflection Temperature at 1.8 MPa (264 psi)	72.0 °C	162 °F	ISO 75
Vicat Softening Point	116 °C	241 °F	VST/B/50; ISO 306
Flammability, UL94	HB	HB	

Descriptive Properties	Value	Comments
Acid Resistance	yes	

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

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