

PolyOne Edgetek® PF-40GF/000 Polysulfone, Glass Filled (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

Description/Features: Glass Fiber Reinforced UL 94 V0 PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PF-40GF000-Polysulfone-Glass-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	ASTM D792
Water Absorption	0.18 %	0.18 %	24 hr. Immersion; ASTM D570
Water Absorption at Saturation	0.58 %	0.58 %	Long-Term Immersion; ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	92	92	ASTM D785
Tensile Strength, Ultimate	145 MPa	21000 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	11.7 GPa	1700 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	183 MPa	26600 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Compressive Strength	176 MPa	25500 psi	ASTM D695
Shear Strength	68.9 MPa	10000 psi	ASTM D732
Izod Impact, Notched	1.17 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	2.20 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	21.6 µm/m-°C @Temperature 20.0 °C	12.0 µin/in-°F @Temperature 68.0 °F	ASTM D696
Thermal Conductivity	>= 0.360 W/m-K	>= 2.50 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 0.46 MPa			Annealed, 0.125 in bars; ASTM D648

(56 psi) Thermal Properties	193 °C Metric	380 °F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	188 °C	370 °F	Annealed, 0.125 in bars; ASTM D648
Flammability, UL94	V-0	V-0	All Colors; 0.062 in.; PolyOne Internal

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	360 - 382 °C	680 - 720 °F	Molding
Mold Temperature	121 - 149 °C	250 - 300 °F	
Drying Temperature	93.3 °C	200 °F	
Dry Time	2 hour	2 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China