

PolyOne Edgetek® PF-40CF/000 Polysulfone, Carbon Fiber Reinforced (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

Description/Features: Carbon 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-40CF000-Polysulfone-Carbon-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Water Absorption	0.18 %	0.18 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.00050 - 0.0010 cm/cm	0.00050 - 0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	179 MPa	26000 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	255 MPa	37000 psi	ASTM D790
Flexural Modulus	18.6 GPa	2700 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm @ Thickness 6.35 mm, Temperature 23.0 °C	1.40 ft-lb/in @ Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	Annealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	50 ohm-cm	50 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	354 - 377 °C	670 - 710 °F	Molding
Mold Temperature	93.3 - 149 °C	200 - 300 °F	
Drying Temperature	135 °C	275 °F	

Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Product Form		Pellets	

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