

PolyOne Edgetek® RA-13CF/000 Polyarylsulfone, Carbon Fiber Reinforced (discontinued **)

Category : Polymer , Thermoplastic , Polyarylsulfone (PAS)

Material Notes:

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-RA-13CF000-Polyarylsulfone-Carbon-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Water Absorption	1.5 %	1.5 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	152 MPa	22000 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	4.0 %	4.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	8.96 GPa	1300 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	228 MPa	33000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.50 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)	213 °C	415 °F	Annealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 ohm-cm	1000 ohm-cm	ASTM D257
Surface Resistivity per Square	1000 ohm	1000 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	343 - 388 °C	650 - 730 °F	Molding

Mold Temperature Processing Properties	121 - 149 °C Metric	250 - 300 °F English	Comments
Drying Temperature	149 °C	300 °F	
Dry Time	2 hour	2 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

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