

PolyOne Edgetek® SY-03CF/000 Polystyrene - High Impact (HIPS), Carbon Fiber Reinforced (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Description/Features: Carbon Fiber Reinforced UL 94 HB (HEM TEST) PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-SY-03CF000-Polystyrene-High-Impact-HIPS-Carbon-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.046 g/cc	1.046 g/cc	ASTM D792
Water Absorption	0.040 %	0.040 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	30.99 MPa	4495 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	2.41 GPa	350 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Modulus	2.38 GPa	345 ksi	ASTM D790
Izod Impact, Notched	0.731 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.37 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	50.4 µm/m-°C @Temperature 20.0 °C	28.0 µin/in-°F @Temperature 68.0 °F	ASTM D696
Thermal Conductivity	>= 0.144 W/m-K	>= 1.00 BTU-in/hr- ft ² -°F	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	90.6 °C	195 °F	Annealed, 0.125 in bars; ASTM D648

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	232 - 260 °C	450 - 500 °F	Molding
Mold Temperature	37.8 - 71.1 °C	100 - 160 °F	

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