

PolyOne Edgetek® AS-30CF/000 UV Acrylonitrile Butadiene Styrene (ABS), Carbon Fiber Reinforced (discontinued)

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Description/Features: Carbon Fiber Reinforced UV Stabilized 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-AS-30CF000-UV-Acrylonitrile-Butadiene-Styrene-ABS-Carbon-Fiber-Reinforced-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Water Absorption	0.16 %	0.16 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Ultimate	109 MPa	15800 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	19.3 GPa	2800 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	159 MPa	23000 psi	ASTM D790
Flexural Modulus	15.2 GPa	2200 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.00 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	27.0 µm/m-°C @Temperature 20.0 °C	15.0 µin/in-°F @Temperature 68.0 °F	ASTM D696
Thermal Conductivity	>= 0.461 W/m-K	>= 3.20 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	113 °C	235 °F	Annealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa	110 °C	230 °F	

(264 psi) Thermal Properties	Metric	English	Annealed, 0.125 in bars; ASTM D648 Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	35 ohm-cm	35 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	232 - 288 °C	450 - 550 °F	Molding
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	
Drying Temperature	79.4 °C	175 °F	
Dry Time	2 hour	2 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

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