

PolyOne Edgetek® UR-30GF/000 Thermoplastic Elastomer - TPU, Glass Filled (discontinued **)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-UR-30GF000-Thermoplastic-Elastomer-TPU-Glass-Filled-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Water Absorption	0.25 %	0.25 %	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	51.7 MPa	7500 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	15 %	15 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	1.52 GPa	220 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	55.2 MPa	8000 psi	ASTM D790
Flexural Modulus	1.38 GPa	200 ksi	ASTM D790
Izod Impact, Notched	4.81 J/cm @ Thickness 6.35 mm, Temperature 23.0 °C	9.00 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 0.46 MPa (66 psi)	104 °C	220 °F	Annealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	Annealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	193 - 216 °C	380 - 420 °F	Molding

Processing Properties	Metric17.8 °C	English90 °F	Comments
Drying Temperature	82.2 °C	180 °F	
Dry Time	2 hour	2 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	
Rockwell Hardness	65 D	ASTM D785

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