

PolyOne Edgetek® UR2-40CF/000 BLACK Polyurethane, Unspecified (PUR, Unspecified)

Category : Polymer , Thermoplastic , Polyurethane, TP

Material Notes:

The Edgetek® Engineering Thermoplastic Compounds portfolio covers a broad range of standard and custom-formulated high performance materials. This portfolio includes high-temperature materials for elevated service temperature environments, high-modulus / structural materials for load-bearing and high-strength applications and flame-retardant products. These compounds are based on select engineering thermoplastic resins that are compounded with reinforcing additives such as carbon fiber, glass fiber and glass beads. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-UR2-40CF000-BLACK-Polyurethane-Unspecified-PUR-Unspecified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Linear Mold Shrinkage, Transverse	0.00090 - 0.0030 cm/cm	0.00090 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	98.6 MPa	14300 psi	ASTM D638
Tensile Strength, Yield	103 MPa	14900 psi	ASTM D638
Elongation at Break	7.0 - 11 %	7.0 - 11 %	ASTM D638
Tensile Modulus	9.31 GPa	1350 ksi	5.1 mm/min; ASTM D638
Flexural Strength	131 MPa	19000 psi	1.3 mm/min; ASTM D790
Flexural Modulus	7.93 GPa	1150 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	2.70 J/cm	5.06 ft-lb/in	Injection Molded; ASTM D256

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 10000 ohm-cm	100 - 10000 ohm-cm	ASTM D257
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	216 - 238 °C	421 - 460 °F	

Descriptive Properties	Value	Comments
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Features Descriptive Properties	Balanced Stiffness/Toughness Value	Comments
	Electrically Conductive	
Filler / Reinforcement	Carbon Fiber Reinforcement, 40% Filler by Weight	
Forms	Pellets	
Generic Material	PUR, Unspecified	
Generic Name	Polyurethane, Unspecified (PUR, Unspecified)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Consumer Applications	
	Industrial Applications	
	Medical/Healthcare Applications	

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