

Edgetek™ UR2-40CF/000 BLACK

Polyurethane

PolyOne Corporation

Message:

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.

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	Balanced Stiffness/Toughness Electrically Conductive		
Uses	Consumer Applications Industrial Applications Medical/Healthcare Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.050 to 0.090	%	
Across Flow	0.090 to 0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	9310	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	103	MPa	
Break	98.6	MPa	
Tensile Elongation (Break)	7.0 to 11	%	ASTM D638
Flexural Modulus ²	7930	MPa	ASTM D790
Flexural Strength ³	131	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	270	J/m	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+4	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Processing (Melt) Temp	216 to 238	°C	
NOTE			

1.	5.1 mm/min
2.	1.3 mm/min
3.	1.3 mm/min

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