

Electrafil® TPU/E 06001

Thermoplastic Polyurethane Elastomer (Polyether)

Techmer Engineered Solutions

Message:

Electrafil® TPU/E 06001 is a Thermoplastic Polyurethane Elastomer (Polyether) (TPU-Polyether) product filled with carbon fiber. It can be processed by injection molding and is available in North America. Primary characteristic: conductive.

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Conductive		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	88		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	67.6	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	552	MPa	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	35.0	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	104	°C	ASTM D1525
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+3	ohms	ASTM D257
Volume Resistivity	10 to 1.0E+3	ohms · cm	ASTM D257

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