

Electrafil® TPU/E 06001

 Techmer Polymer Modifiers - *Thermoplastic Polyurethane Elastomer (Polyether)*
General Information
General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> North America
Filler / Reinforcement	<ul style="list-style-type: none"> Carbon Fiber
Features	<ul style="list-style-type: none"> Conductive
Appearance	<ul style="list-style-type: none"> Black
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.29		ASTM D792
Molding Shrinkage - Flow (0.125 in)	3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	9800	psi	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	80000	psi	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	200	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	88		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	220	°F	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

Notes
¹ Typical properties: these are not to be construed as specifications.
