

**Electrafil® TPU G/CF40**

 Techmer Polymer Modifiers - *Thermoplastic Polyurethane Elastomer*
**General Information**
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Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber\Carbon Fiber, 40% Filler by Weight
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.27		ASTM D792
Water Absorption (24 hr)	0.20	%	ASTM D570
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength (Yield)	5700	psi	ASTM D638
Tensile Elongation (Yield)	35	%	ASTM D638
Flexural Modulus	60000	psi	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (73°F, 0.125 in)	3.0	ft·lb/in	ASTM D256
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Durometer Hardness (Shore D)	82		ASTM D2240
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Volume Resistivity	1.0E+3 to 1.0E+5	ohms·cm	ASTM D257

**Notes**
<sup>1</sup> Typical properties: these are not to be construed as specifications.
