Electrafil® TPU CF10

Techmer Polymer Modifiers - *Thermoplastic Polyurethane Elastomer*

General Information

General		
Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber\Carbon Fiber, 40% Filler by Weight	
Appearance	• Black	• Colors Available
Forms	• Pellets	
Processing Method	• Injection Molding	

Properties [1]

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

Notes

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

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