

HiFill® TPU GF40

 Techmer Polymer Modifiers - *Thermoplastic Polyurethane Elastomer*
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"> Glass Fiber, 40% Filler by Weight
Appearance	<ul style="list-style-type: none"> Colors Available
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.55		ASTM D792
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical			
Nominal Value Unit Test Method			
Tensile Strength (Break)	9600	psi	ASTM D638
Tensile Elongation (Yield)	20	%	ASTM D638
Flexural Modulus	260000	psi	ASTM D790
Flexural Strength	11000	psi	ASTM D790
Impact			
Nominal Value Unit Test Method			
Notched Izod Impact (73°F, 0.125 in)	10	ft·lb/in	ASTM D256
Hardness			
Nominal Value Unit Test Method			
Durometer Hardness (Shore D)	70		ASTM D2240
Thermal			
Nominal Value Unit Test Method			
Deflection Temperature Under Load (264 psi, Unannealed)	340	°F	ASTM D648
CLTE - Flow	1.4E-5	in/in/°F	ASTM D696
Electrical			
Nominal Value Unit Test Method			
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	400	V/mil	ASTM D149

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