

HiFill® TPU LGF40 NAT 2000 12mm

 Techmer Polymer Modifiers - *Thermoplastic Polyurethane Elastomer*
General Information
General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Long Glass Fiber, 40% Filler by Weight
Appearance	• Colors Available • Colors Available • Natural Color
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.51		ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical			
Tensile Strength (Break)	32000	psi	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	1.40E+6	psi	ASTM D790
Flexural Strength	46000	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	10	ft·lb/in	ASTM D256
Hardness			
Durometer Hardness (Shore D)	90		ASTM D2240
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	300	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	200	°F	ASTM D648
Electrical			
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257

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