

HiFill® TPU GF20

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

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.37		ASTM D792
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical			
Tensile Strength (Break)	7600	psi	ASTM D638
Tensile Elongation (Yield)	35	%	ASTM D638
Flexural Modulus	145000	psi	ASTM D790
Flexural Strength	9000	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	12	ft·lb/in	ASTM D256
Hardness			
Durometer Hardness (Shore D)	60		ASTM D2240
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	340	°F	ASTM D648
CLTE - Flow	3.1E-5	in/in/°F	ASTM D696
Electrical			
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.
