

HiFill® TPU LGF45 2000 TRANS 12MM

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

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Long Glass Fiber, 45% Filler by Weight
Appearance	• Colors Available • Natural Color
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.57		ASTM D792
Molding Shrinkage - Flow	3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Mechanical			
Nominal Value Unit Test Method			
Tensile Strength (Break)	38000	psi	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	1.80E+6	psi	ASTM D790
Flexural Strength	52000	psi	ASTM D790
Impact			
Nominal Value Unit Test Method			
Notched Izod Impact (73°F, 0.125 in)	8.0	ft·lb/in	ASTM D256
Hardness			
Nominal Value Unit Test Method			
Durometer Hardness (Shore D)	90		ASTM D2240
Thermal			
Nominal Value Unit Test Method			
Deflection Temperature Under Load (66 psi, Unannealed)	340	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	237	°F	ASTM D648
CLTE - Flow	2.5E-5	in/in/°F	ASTM D696
Electrical			
Nominal Value Unit Test Method			
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257

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