

# HiFill® TPU LGF40 2000 NAT 12mm

Thermoplastic Polyurethane Elastomer

Techmer Engineered Solutions

## Message:

HiFill® TPU LGF40 2000 NAT 12mm is a Thermoplastic Polyurethane Elastomer product filled with 40% long glass fiber. It can be processed by injection molding and is available in North America.

General Information			
Filler / Reinforcement	Long Glass Fiber,40% Filler by Weight		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.30	%	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	90		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	228	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	11000	MPa	ASTM D790
Flexural Strength	308	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	370	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	171	°C	
1.8 MPa, Unannealed	114	°C	
CLTE - Flow	4.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength <sup>1</sup>	16	kV/mm	ASTM D149
NOTE			
1.	Method A (Short-Time)		

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