

**HiFill® TPU LGF35 2000 TRANS 12MM GY546**

 Techmer Polymer Modifiers - *Thermoplastic Polyurethane Elastomer*
**General Information**
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Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Long Glass Fiber, 35% Filler by Weight
Appearance	• Transparent Grey
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.48		ASTM D792
Molding Shrinkage - Flow	3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
<b>Mechanical</b>			
Tensile Modulus	1.45E+6	psi	ASTM D638
Tensile Strength (Break)	25000	psi	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	1.35E+6	psi	ASTM D790
Flexural Strength	35600	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F, 0.125 in)	4.0	ft-lb/in	ASTM D256
<b>Thermal</b>			
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
<b>Electrical</b>			
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	400	V/mil	ASTM D149

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	190	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	400 to 440	°F
Middle Temperature	420 to 470	°F
Front Temperature	440 to 490	°F
Nozzle Temperature	440 to 480	°F
Processing (Melt) Temp	420 to 470	°F
Mold Temperature	120 to 200	°F
Back Pressure	0.00 to 100	psi

