

HiFill® PA12 GF30 HS L

Techmer Polymer Modifiers - *Polyamide 12*

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Heat Stabilizer • Lubricant
Features	• Heat Stabilized • Lubricated
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.24		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	15600	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	800000	psi	ASTM D790
Flexural Strength	21700	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	2.9	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	280	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	320	°F	ASTM D648
CLTE - Flow	2.3E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (Method A (Short-Time))	450	V/mil	ASTM D149

Notes

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

