

HiFill® PEEK GF30 A 2020

 Techmer Polymer Modifiers - *Polyetheretherketone*
General Information
General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Appearance	• Natural Color
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.15		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
Mechanical			
Tensile Strength (Break)	24500	psi	ASTM D638
Tensile Elongation (Break)	3.1	%	ASTM D638
Flexural Modulus	1.32E+6	psi	ASTM D790
Flexural Strength	33100	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	2.2	ft-lb/in	ASTM D256
Hardness			
Rockwell Hardness (R-Scale)	115		ASTM D785
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	600	°F	ASTM D648
Melting Temperature	671	°F	
CLTE - Flow	1.2E-5	in/in/°F	ASTM D696
Electrical			
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	580	V/mil	ASTM D149
Flammability			
Flame Rating (0.06 in)	V-0		UL 94

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	300	°F

