



HiFill® PEEK GF30 HT011A

Techmer Polymer Modifiers - *Polyetheretherketone*

Action



General Information

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• High Dimensional Stability
Uses	• Seals
Appearance	• Colors Available • Colors Available • Natural Color
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.51		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 Modulus			ASTM D638
--	1.58E+6	psi	
-- ³	1.77E+6	psi	
Tensile Strength			ASTM D638
Break	22800	psi	
Break ³	25800	psi	
Tensile Elongation ³ (Break)	• 3.0 % • 3.9		ASTM D638
Flexural Modulus	1.20E+6	psi	ASTM D790
Flexural Strength	31500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-- ³	1.9	ft·lb/in	
73°F, 0.125 in	1.8	ft·lb/in	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	600	°F	ASTM D648
Melting Temperature	648	°F	
CLTE - Flow	1.2E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	580	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94

Notes

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

² Annealed

³ Annealed Data 200C, 4 Hours