

HiFill® PEEK GF30 HT011A

Polyetheretherketone

Techmer Engineered Solutions

Message:

HiFill® PEEK GF30 HT011A is a Polyetheretherketone (PEEK) product filled with 30% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Appearance	Colors Available		
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	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	1.50	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ASTM D638
-- ²	12200	MPa	
--	10900	MPa	
Tensile Strength			ASTM D638
Break ³	178	MPa	
Break	157	MPa	
	3.9		
Tensile Elongation ⁴ (Break)	3.0	%	ASTM D638
Flexural Modulus	8270	MPa	ASTM D790
Flexural Strength	217	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-- ⁵	99	J/m	
23°C, 3.18 mm	93	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	316	°C	ASTM D648

Melting Temperature	342	°C	
CLTE - Flow	2.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength ⁶	23	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
NOTE			
1.	Annealed		
2.	Annealed Data 200C, 4 Hours		
3.	Annealed Data 200C, 4 Hours		
4.	Annealed Data 200C, 4 Hours		
5.	Annealed Data 200C, 4 Hours		
6.	Method A (Short-Time)		

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