

# HiFill® PEEK CF30 A 002

Polyetheretherketone

Techmer Engineered Solutions

## Message:

HiFill® PEEK CF30 A 002 is a Polyetheretherketone (PEEK) product filled with carbon fiber. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Carbon Fiber		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (24 hr)	0.14	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	214	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	18600	MPa	ASTM D790
Flexural Strength	303	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	91	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	337	°C	ASTM D648
CLTE - Flow	1.1E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+3	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+3	ohms · cm	ASTM D257
Shielding Effectiveness - 30 to 1000 MHz	30	dB	ASTM D4935
Static Decay	< 0.500		FTMS 101B
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	249	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	360 to 388	°C	
Middle Temperature	360 to 388	°C	
Front Temperature	360 to 388	°C	

Processing (Melt) Temp	360 to 382	°C
Mold Temperature	177 to 218	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	50 to 100	rpm

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