

# HiFill® PPSU GF10

Polyphenylsulfone

Techmer Engineered Solutions

## Message:

HiFill® PPSU GF10 is a Polyphenylsulfone (PPSU) product filled with 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		
Appearance	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	83.4	MPa	ASTM D638
Tensile Elongation (Yield)	2.0	%	ASTM D638
Flexural Modulus	4000	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	96	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	213	°C	ASTM D648
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength <sup>1</sup>	19	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.57 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	160	°C	
Drying Time	3.0	hr	
Rear Temperature	357 to 391	°C	
Middle Temperature	357 to 391	°C	
Front Temperature	357 to 391	°C	
Processing (Melt) Temp	343 to 399	°C	
Mold Temperature	110 to 149	°C	

Back Pressure	0.345 to 0.689	MPa
Screw Speed	50 to 100	rpm

NOTE

1.
- Method A (Short-Time)

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Recommended distributors for this material


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