

HiFill® PPSU GF40

Polyphenylsulfone

Techmer Engineered Solutions

Message:

HiFill® PPSU GF40 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	1.63	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.13	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	172	MPa	ASTM D638
Tensile Elongation (Yield)	2.5	%	ASTM D638
Flexural Modulus	11000	MPa	ASTM D790
Flexural Strength	223	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	130	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.18 mm)	800	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	216	°C	
1.8 MPa, Unannealed	213	°C	
CLTE - Flow	1.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0	ohms · cm	ASTM D257
Dielectric Strength ¹	25	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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