

# HiFill® PPSU 4000 BK

Polyphenylsulfone  
Techmer Engineered Solutions

Message:

HiFill® PPSU 4000 BK is a Polyphenylsulfone (PPSU) product. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

General Information			
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.70	%	ASTM D955
Water Absorption (24 hr)	0.37	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	69.6	MPa	ASTM D638
Tensile Elongation (Yield)	7.0	%	ASTM D638
Flexural Modulus	2450	MPa	ASTM D790
Flexural Strength	88.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	590	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	207	°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 (0.800 mm)	V-0		UL 94
NOTE			

1. Method A (Short-Time)

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