Wednesday, May 13, 2026

HiFill® PPSU 4000 BK

Techmer Polymer Modifiers - *Polyphenylsulfone*

Units SI

Action **Legend (Open)**

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density / Specific Gravity	1.28	g/cm³	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
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
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	120		ASTM D785
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 (Method A (Short-Time))	19	kV/mm	ASTM D149
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.8 mm)	V-0		UL 94

Notes

[1] Typical properties: these are not to be construed as specifications.

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