Wednesday, May 13, 2026

HiFill® PPSU 5500 BSF06 LE BN102

Techmer Polymer Modifiers - *Polyphenylsulfone*

Units SI

Action | **Legend (Open)**

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Features	• Low Extractables
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.40	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (365°C/5.0 kg)	15	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	• 73.8 • 73.8	MPa	ASTM D638
Tensile Strength (Break)	59.3	MPa	ASTM D638
Tensile Elongation (Break)	42	%	ASTM D638
Flexural Modulus	• 2800 • 2820	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	• 150 • 150	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	197	°C	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	2.0 to 4.0	hr
Rear Temperature	338 to 388	°C
Middle Temperature	338 to 388	°C
Front Temperature	338 to 388	°C
Nozzle Temperature	338 to 388	°C
Processing (Melt) Temp	360 to 391	°C
Mold Temperature	138 to 163	°C
Injection Rate	Slow	
Back Pressure	0.00 to 0.689	MPa
Screw Speed	Slow-Moderate	

Notes

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

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