

**HiFill® PPSU GY061**

 Techmer Polymer Modifiers - *Polyphenylsulfone*
**General Information**
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Material Status	• Commercial: Active
Availability	• North America
Appearance	• Colors Available • Grey
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.28		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/1.05 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	7.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	1.1	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	10100	psi	ASTM D638
Tensile Elongation (Yield)	7.0	%	ASTM D638
Flexural Modulus	355000	psi	ASTM D790
Flexural Strength	12900	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	13	ft·lb/in	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 (264 psi, Unannealed)	405	°F	ASTM D648
CLTE - Flow	4.0E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	470	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	320	°F
Drying Time	3.0	hr
Rear Temperature	675 to 735	°F
Middle Temperature	675 to 735	°F
Front Temperature	675 to 735	°F
Processing (Melt) Temp	650 to 750	°F
Mold Temperature	230 to 300	°F
Back Pressure	50.0 to 100	psi
Screw Speed	50 to 100	rpm

