

**HiFill® TEST**

 Techmer Polymer Modifiers - *Polyethersulfone*
**General Information**
**Product Description**

PSUM93051

**General**

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

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

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.46		ASTM D792
<b>Mechanical</b>			
Tensile Modulus	2.50E+6	psi	ASTM D638
Tensile Strength (Yield)	23000	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	2.30E+6	psi	ASTM D790
Flexural Strength	36000	psi	ASTM D790
Compressive Modulus	800000	psi	ASTM D695
Compressive Strength	26500	psi	ASTM D695
<b>Impact</b>			
Notched Izod Impact (73°F, 0.125 in)	1.2	ft-lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (66 psi, Unannealed)	436	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	432	°F	ASTM D648
CLTE - Flow	2.8E-5	in/in/°F	ASTM D696
Specific Heat	0.344	Btu/lb/°F	ASTM C351
<b>Electrical</b>			
Surface Resistivity	2.0 to 6.0	ohms	ASTM D257

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	280	°F
Drying Time	3.0 to 6.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	550 to 580	°F
Middle Temperature	600 to 650	°F
Front Temperature	660 to 720	°F
Nozzle Temperature	650 to 700	°F
Processing (Melt) Temp	660 to 725	°F

