

HiFill® PESU 1810 3DP

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 ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.46		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
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
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.2	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
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
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0 to 6.0	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
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

