

Technical Data Sheet

SustaPEI GF 30 - ASTM

PEI

Typical characteristics

- High heat deflection temperature
- Flame retardant
- Low smoke development

Typical industries

- Aerospace
- Electrical Industry
- Healthcare

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	1.51
Water Absorption 24 hours	ASTM D570	%	0.2
Dissipation Factor	ASTM D150	1MHz	0.0016
Water Absorption Saturation	ASTM D570	%	0.9
Mechanical properties			
Hardness	ASTM D2240	Shore D	86
Tensile Strength at yield 73°F	ASTM D638	psi	20000
Tensile Modulus	ASTM D638	psi	900000
Elongation at Break	ASTM D638	%	3
Flexural Strength	ASTM D790	psi	33000
Flexural Modulus	ASTM D790	psi	950000
Compressive Strength	ASTM D695	psi	31000
Rockwell Hardness	ASTM D785		115
Rockwell Hardness	ASTM D785	R	127
Izod Impact, Notched	ASTM D256	ft-lb/in	1
Coefficient of Friction, Dynamic			0.24
Thermal properties			
Thermal Conductivity		in/hr/ft ² /°F	1.8
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	1.1
Melting Point	ASTM D789	°F	442
Continuous Service Temperature, Air		°F	340

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	Test method	Unit	Guideline value
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	410
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	414
Flammability, UL94		1/8 inch	V-0
Electrical properties			
Dielectric constant	ASTM D150	1MHz	3.7
Dielectric strength	ASTM D149	V/mil	770
Surface resistivity	ASTM D257	Ω/cm	>10 ¹³
Compliance properties			
FDA			No
NSF			No
USDA			No

The data stated above are average values ascertained by statistical tests on a regular basis. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.

