

Technical Data Sheet

SustaPEEK GF 30 - ASTM

Typical characteristics

- High rigidity at good dimensional stability
- Very low creep tendency
- High continuous service temperature

Typical industries

- Electrical Industry
- Electronics
- Aerospace
- Chemical storage tanks

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	1.51
Water Absorption 24 hours	ASTM D570	%	0.1
Water Absorption Saturation	ASTM D570	%	0.3
Mechanical properties			
Hardness	ASTM D2240	Shore D	86
Tensile Strength at yield 73°F	ASTM D638	psi	24000
Tensile Modulus	ASTM D638	psi	1300000
Elongation at Break	ASTM D638	%	3
Flexural Strength	ASTM D790	psi	28000
Flexural Modulus	ASTM D790	psi	1350000
Compressive Strength	ASTM D695	psi	26000
Rockwell Hardness	ASTM D785		105
Rockwell Hardness	ASTM D785	R	126
Shear Strength	ASTM D732	psi	14000
Izod Impact, Notched	ASTM D256	ft-lb/in	1.4
Thermal properties			
Thermal Conductivity		in/hr/ft ² /°F	2.98
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	1.2
Melting Point	ASTM D789	°F	645
Continuous Service Temperature, Air		°F	510

Röchling Industrial Gastonia, LP

903 Gastonia Technology Parkway • 28034 Dallas/United States (US) • Tel. +1 704 922-7814
rep@roechling-plastics.us • www.roechling.com/industrial/rep-us

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	Test method	Unit	Guideline value
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	500
Flammability, UL94		1/8 inch	V-0
Electrical properties			
Dielectric strength	ASTM D149	V/mil	500
Surface resistivity	ASTM D257	Ohm/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.

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