

## Technical Data Sheet

# SustaPEEK GF 30 - ASTM

PEEK

### Typical characteristics

- High rigidity
- Good dimensional stability
- Low creep tendency
- High continuous service temperature

### Typical industries

- Aerospace
- Chemical storage tanks
- Electrical Industry

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	1.51
Water Absorption 24 hours	ASTM D570	%	0.1
Water Absorption Saturation	ASTM D570	%	0.3
<b>Mechanical properties</b>			
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
<b>Thermal properties</b>			
Thermal Conductivity		in/hr/ft <sup>2</sup> /°F	2.98
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 <sup>-5</sup>	1.2
Melting Point	ASTM D789	°F	645
Continuous Service Temperature, Air		°F	510

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Page 1 / 2 (Dates in DD/MM/YYYY)



	Test method	Unit	Guideline value
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	500
Flammability, UL94		1/8 inch	V-0
<b>Electrical properties</b>			
Dielectric strength	ASTM D149	V/mil	500
Surface resistivity	ASTM D257	Ω/cm	>10 <sup>13</sup>
<b>Compliance properties</b>			
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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