

## Technical Data Sheet

# SustaPEEK CF 30 - ASTM

### Typical characteristics

- Low coefficient of thermal expansion
- Very high rigidity and stiffness
- Good dimensional stability

### Typical industries

- Electrical Industry
- Electronics

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	1.41
Water Absorption 24 hours	ASTM D570	%	0.06
Water Absorption Saturation	ASTM D570	%	0.3
<b>Mechanical properties</b>			
Hardness	ASTM D2240	Shore D	93
Tensile Strength at yield 73°F	ASTM D638	psi	20000
Tensile Modulus	ASTM D638	psi	1000000
Elongation at Break	ASTM D638	%	5
Flexural Strength	ASTM D790	psi	25000
Flexural Modulus	ASTM D790	psi	1300000
Compressive Strength	ASTM D695	psi	29000
Rockwell Hardness	ASTM D785		102
Rockwell Hardness	ASTM D785	R	124
Izod Impact, Notched	ASTM D256	ft-lb/in	1
Coefficient of Friction, Dynamic			0.2
<b>Thermal properties</b>			
Thermal Conductivity		in/hr/ft <sup>2</sup> /°F	6.3
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 <sup>-5</sup>	1
Melting Point	ASTM D789	°F	645
Continuous Service Temperature, Air		°F	480
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	520

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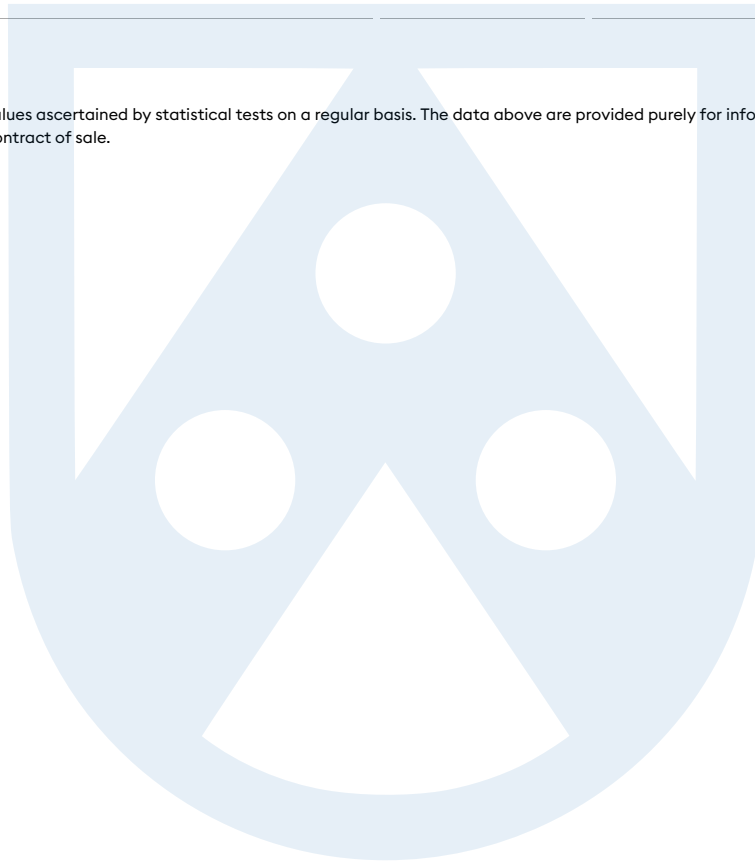
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	Test method	Unit	Guideline value
Flammability, UL94		1/8 inch	V-0
<b>Electrical properties</b>			
Dielectric constant	ASTM D150	1MHz	3.3
Dielectric strength	ASTM D149	V/mil	32
Surface resistivity	ASTM D257	Ohm/cm	<10 <sup>5</sup>
<b>Compliance properties</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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