

Technical data sheet

SUSTAPEEK GF 30 (polyether ether ketone – glass-filled 30%)

Product characteristics

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

Typical field of application

- Electrical industry
- Aviation industry
- Chemical engineering and tank building

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	1.51
Water Absorption 24 hours	D570	%	0.1
Water Absorption Saturation	D570	%	0.3
Dissipation Factor	D150	1 MHz	-
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	D86
Rockwell Hardness	D785	M	M105
Rockwell Hardness	D785	R	R126
Tensile Strength at yield 73 °F	D638	psi	24,000
Tensile Modulus	D638	psi	1,300,000
Elongation at Break	D638	%	3
Flexural Strength	D790	psi	28,000
Flexural Modulus	D790	psi	1,350,000
Compressive Strength	D695	psi	26,000
Shear Strength	D732	psi	14,000
Izod Impact, Notched	D256	ft-lb/in	1.4
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	1.2x10 ⁻⁵
Melting Point	D3418	°F	645
Continuous Use	-	°F	510
Thermal Conductivity	-	in/hr/ft ² /F°	2.98
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	-
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	500
Flammability, UL94	-	1/8 inch	V-0
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	-
Surface resistivity	D257	Ohm/cm	10 ¹⁶
Dielectric strength	D149	V/mil	500
Compliance Properties	tested method	unit	value
FDA	-	-	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.