

## Technical data sheet

### SUSTAPEI GF 30 (Polyetherimide - ULTEM™ Glass Filled 30%)

#### Product characteristics

- High heat deflection temperatures
- Flame retardant & very low smoke development
- High tensile strength & hardness over a broad temperature range

#### Typical field of application

- Electrical industry
- Aviation industry

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm <sup>3</sup>	1.51
Water Absorption 24 hours	D570	%	0.2
Water Absorption Saturation	D570	%	0.9
Dissipation Factor	D150	1 MHz	0.0016
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	D86
Rockwell Hardness	D785	M	M115
Rockwell Hardness	D785	R	R127
Tensile Strength at yield 73 °F	D638	psi	20,000
Tensile Modulus	D638	psi	900,000
Elongation at Break	D638	%	3
Flexural Strength	D790	psi	33,000
Flexural Modulus	D790	psi	950,000
Compressive Strength	D695	psi	31,000
Shear Strength	D732	psi	-
Izod Impact, Notched	D256	ft-lb/in	1.0
Coefficient of Friction, Dynamic	-	-	0.24
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	1.1x10 <sup>-5</sup>
Melting Point	D3418	°F	442
Continuous Use	-	°F	340
Thermal Conductivity	-	in/hr/ft <sup>2</sup> /F°	1.8
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	414
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	410
Flammability, UL94	-	1/8 inch	V-0
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	3.7
Surface resistivity	D257	Ohm/cm	10 <sup>16</sup>
Dielectric strength	D149	V/mil	770
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.