

Technical data sheet

SUSTANAT PC GF 20 (Polycarbonate – Glass filled 20%)

Product characteristics

- High heat deflection temperatures & self-extinguishing
- Good dimensional stability
- Low moisture absorption

Typical field of application

- Mechanical engineering
- Aircraft construction
- Electrical applications

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	1.35
Water Absorption 24 hours	D570	%	0.16
Water Absorption Saturation	D570	%	0.29
Dissipation Factor	D150	1 MHz	0.0009
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	D87
Rockwell Hardness	D785	M	M91
Rockwell Hardness	D785	R	R122
Tensile Strength at yield 73 °F	D638	psi	16,000
Tensile Modulus	D638	psi	860,000
Elongation at Break	D638	%	6
Flexural Strength	D790	psi	19,000
Flexural Modulus	D790	psi	800,000
Compressive Strength	D695	psi	16,000
Shear Strength	D732	psi	-
Izod Impact, Notched	D256	ft-lb/in	2.0
Coefficient of Friction	-	-	0.22
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	1.5x10 ⁻⁵
Melting Point	D3418	°F	330
Continuous Use	-	°F	260
Thermal Conductivity	-	in/hr/ft ² /F°	1.47
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	298
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	295
Flammability, UL94	-	3 mm	V-0, 5VA
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	3.13
Surface resistivity	D257	Ohm/cm	10 ¹⁷
Dielectric strength	D149	V/mil	490
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.