

Technical Data Sheet

Sustanat[®] PC GF 20 - ASTM

PC

Typical characteristics

- High heat deflection temperature
- Self-extinguishing
- Good dimensional stability

Typical industries

- Mechanical Engineering Industry
- Aerospace
- Electronics

	Test method	Unit	Guideline value
General properties			
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
Density	ASTM D792	g / cm ³	1.35
Water Absorption 24 hours	ASTM D570	%	0.16
Dissipation Factor	ASTM D150	1MHz	0.0009
Water Absorption Saturation	ASTM D570	%	0.29
Mechanical properties			
Hardness	ASTM D2240	Shore D	87
Tensile Strength at yield 73°F	ASTM D638	psi	16000
Tensile Modulus	ASTM D638	psi	860000
Elongation at Break	ASTM D638	%	6
Flexural Strength	ASTM D790	psi	19000
Flexural Modulus	ASTM D790	psi	800000
Compressive Strength	ASTM D695	psi	16000
Rockwell Hardness	ASTM D785		91
Rockwell Hardness	ASTM D785	R	122
Izod Impact, Notched	ASTM D256	ft-lb/in	2
Coefficient of Friction, Dynamic			0.22
Thermal properties			
Thermal Conductivity		in/hr/ft ² /°F	1.47
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	1.5
Melting Point	ASTM D789	°F	330

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	Test method	Unit	Guideline value
Continuous Service Temperature, Air		°F	260
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	295
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	298
Electrical properties			
Dielectric constant	ASTM D150	1MHz	3.13
Dielectric strength	ASTM D149	V/mil	490
Surface resistivity	ASTM D257	Ω/cm	>10 ¹³
Compliance properties			
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.

