

## Technical Data Sheet

# Sustanat<sup>®</sup> PC GF 20 - ASTM

PC

### Typical characteristics

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

### Typical industries

- Mechanical Engineering Industry
- Aerospace
- Electronics

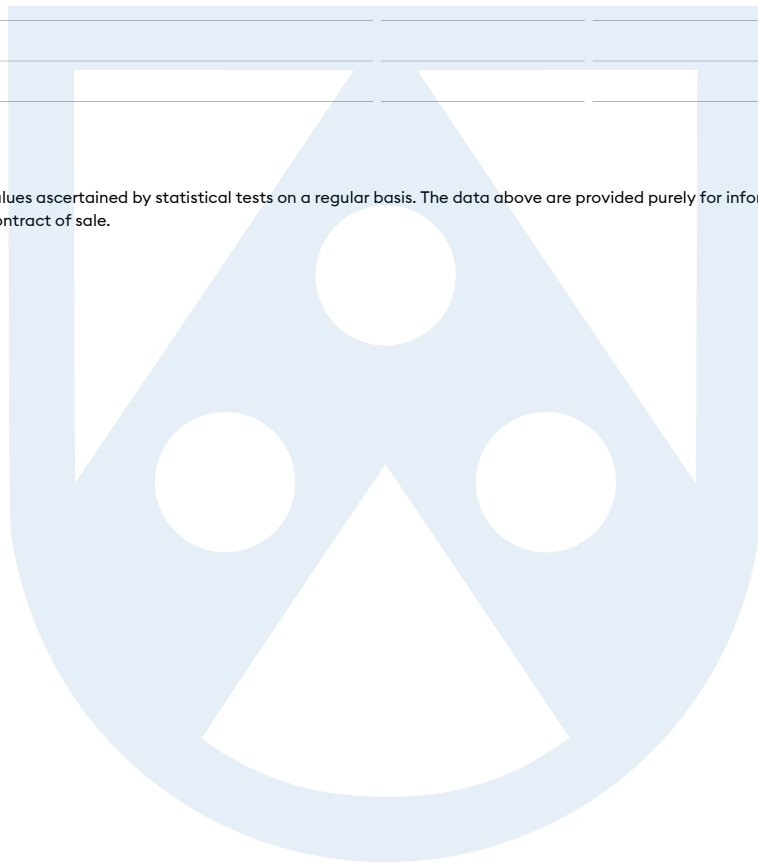
	Test method	Unit	Guideline value
<b>General properties</b>			
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
Density	ASTM D792	g / cm <sup>3</sup>	1.35
Water Absorption 24 hours	ASTM D570	%	0.16
Dissipation Factor	ASTM D150	1MHz	0.0009
Water Absorption Saturation	ASTM D570	%	0.29
<b>Mechanical properties</b>			
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
<b>Thermal properties</b>			
Thermal Conductivity		in/hr/ft <sup>2</sup> /°F	1.47
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 <sup>-5</sup>	1.5
Melting Point	ASTM D789	°F	330

[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)



	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
<b>Electrical properties</b>			
Dielectric constant	ASTM D150	1MHz	3.13
Dielectric strength	ASTM D149	V/mil	490
Surface resistivity	ASTM D257	Ω/cm	>10 <sup>13</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.



[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)

