

## SUSTANAT PC GF20 (Polycarbonate)

	ASTM Test method	Unit	Value
<b>Physical Properties</b>			
Specific Gravity	D792	g/cm <sup>3</sup>	1.35
Water Absorption 24 hours	D570	%	0.16
Water Absorption Saturation	D570	%	0.29
Dissipation Factor	D150	1 MHz	0.0009
<b>Mechanical Properties</b>			
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
Coefficient of Friction	-	-	0.22
<b>Thermal properties</b>			
CTE, linear	D696	in/in/°F	1.5x10 <sup>-5</sup>
Melting Point	D3418	°F	330
Continuous Use	-	°F	260
Thermal Conductivity	-	in/hr/ft <sup>2</sup> /F°	1.47
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	298
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	295
Flammability, UL94	-	1/8 inch	HB
<b>Electrical properties</b>			
Dielectric constant	D150	-	3.13
Surface resistivity	D257	Ohm/cm	10 <sup>17</sup>
Dielectric strength	D149	V/mil	490
<b>Compliance Properties</b>			
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.

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