

## Technical Data Sheet

# Sustanat<sup>®</sup> PC - ASTM

### Typical characteristics

- Good dimensional stability
- Low moisture absorption
- High stiffness

### Typical industries

- Electrical Industry
- Mechanical Engineering Industry

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	1.2
Water Absorption 24 hours	ASTM D570	%	0.15
Dissipation Factor	ASTM D150	1MHz	0.006
Water Absorption Saturation	ASTM D570	%	0.35
<b>Mechanical properties</b>			
Hardness	ASTM D2240	Shore D	80
Tensile Strength at yield 73°F	ASTM D638	psi	10000
Tensile Modulus	ASTM D638	psi	320000
Elongation at Break	ASTM D638	%	75
Flexural Strength	ASTM D790	psi	13000
Flexural Modulus	ASTM D790	psi	340000
Compressive Strength	ASTM D695	psi	11500
Rockwell Hardness	ASTM D785		75
Rockwell Hardness	ASTM D785	R	126
Shear Strength	ASTM D732	psi	9000
Izod Impact, Notched	ASTM D256	ft-lb/in	10
Coefficient of Friction, Dynamic			0.38
<b>Thermal properties</b>			
Thermal Conductivity		in/hr/ft <sup>2</sup> /°F	1.3
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 <sup>-5</sup>	3.8
Melting Point	ASTM D789	°F	310
Continuous Service Temperature, Air		°F	250

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	Test method	Unit	Guideline value
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	280
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	295
Flammability, UL94		1/8 inch	HB
<b>Electrical properties</b>			
Dielectric constant	ASTM D150	1MHz	3.2
Dielectric strength	ASTM D149	V/mil	380
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.

