

Technical Data Sheet

Sustanat® PC - ASTM

Typical characteristics

- Good dimensional stability
- Low moisture absorption
- High stiffness
- High hardness
- High heat deflection temperature
- good formability
- good electrical insulating properties
- Good impact strength

Typical industries

- Mechanical Engineering Industry
- Electronics

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	1.2
Water Absorption 24 hours	ASTM D570	%	0.15
Dissipation Factor	ASTM D150	1MHz	0.006
Water Absorption Saturation	ASTM D570	%	0.35
Mechanical properties			
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

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	Test method	Unit	Guideline value
Thermal properties			
Thermal Conductivity		in/hr/ft ² /°F	1.3
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	3.8
Melting Point	ASTM D789	°F	310
Continuous Service Temperature, Air		°F	250
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
Electrical properties			
Dielectric constant	ASTM D150	1MHz	3.2
Dielectric strength	ASTM D149	V/mil	380
Surface resistivity	ASTM D257	Ohm/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.

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