

Technical Data Sheet

Sustadur[®] PBT - ASTM

PBT

Typical characteristics

- Low moisture absorption
- Good impact strength
- Good sliding properties
- High tensile strength
- High stiffness
- Good machinability
- good adhesive properties
- Good weldability
- Good thermal stability
- Good wear resistance

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	1.31
Water Absorption 24 hours	ASTM D570	%	0.25
Water Absorption Saturation	ASTM D570	%	0.4
Mechanical properties			
Tensile Strength at yield 73°F	ASTM D638	psi	8000
Tensile Modulus	ASTM D638	psi	425000
Elongation at Break	ASTM D638	%	30
Flexural Strength	ASTM D790	psi	14000
Flexural Modulus	ASTM D790	psi	425000
Rockwell Hardness	ASTM D785		72
Izod Impact, Notched	ASTM D256	ft-lb/in	0.6
Thermal properties			
Thermal Conductivity		in/hr/ft ² /°F	1.4
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	4.0
Melting Point	ASTM D789	°F	430
Continuous Service Temperature, Air		°F	230

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	Test method	Unit	Guideline value
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	175
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	320
Flammability, UL94		1/8 inch	HB
Electrical properties			
Dielectric constant	ASTM D150	1MHz	3
Dielectric strength	ASTM D149	V/mil	400
Surface resistivity	ASTM D257	Ω/cm	>10 ¹³
Compliance properties			
FDA			Yes
NSF			No
USDA			Yes

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.

