

Technical Data Sheet

Sustadur[®] PET TF - ASTM

PET

Typical industries

- Conveyor Technology & Automation
- Mechanical Engineering Industry
- Electronics
- Vehicle Construction
- Food Industry
- Bakery and Confectionery
- Beverage Industry

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	1.44
Water Absorption 24 hours	ASTM D570	%	0.06
Dissipation Factor	ASTM D150	1MHz	0.02
Water Absorption Saturation	ASTM D570	%	0.47
Mechanical properties			
Hardness	ASTM D2240	Shore D	80
Tensile Strength at yield 73°F	ASTM D638	psi	10500
Tensile Modulus	ASTM D638	psi	377000
Elongation at Break	ASTM D638	%	5
Flexural Strength	ASTM D790	psi	14000
Flexural Modulus	ASTM D790	psi	360000
Compressive Strength	ASTM D695	psi	15000
Rockwell Hardness	ASTM D785	M	94
Shear Strength	ASTM D732	psi	8500
Izod Impact, Notched	ASTM D256	ft-lb/in	0.4
Coefficient of Friction, Dynamic			0.19
Thermal properties			

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	Test method	Unit	Guideline value
Thermal Conductivity		in/hr/ft ² /°F	1.9
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	4.5
Melting Point	ASTM D789	°F	491
Continuous Service Temperature, Air		°F	210
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	180
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	338
Flammability, UL94		1/8 inch	HB
Electrical properties			
Dielectric constant	ASTM D150	1MHz	3.2
Dielectric strength	ASTM D149	V/mil	400
Surface resistivity	ASTM D257	Ω/cm	>10 ¹³
Compliance properties			
NSF			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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