

Technical data sheet

SUSTADUR PBT (polyethylene terephthalate)

Product characteristics

- Low moisture absorption
- Good impact strength
- High wear resistance & good sliding properties

Typical field of application

- Mechanical engineering
- Construction, sports & leisure applications
- Plant engineering

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	1.31
Water Absorption 24 hours	D570	%	0.25
Water Absorption Saturation	D570	%	0.4
Dissipation Factor	D150	1 MHz	-
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	-
Rockwell Hardness	D785	M	M72
Rockwell Hardness	D785	R	-
Tensile Strength at yield 73 °F	D638	psi	8,000
Tensile Modulus	D638	psi	425,000
Elongation at Break	D638	%	30
Flexural Strength	D790	psi	14,000
Flexural Modulus	D790	psi	425,000
Compressive Strength	D695	psi	-
Shear Strength	D732	psi	-
Izod Impact, Notched	D256	ft-lb/in	0.6
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	4.0x10 ⁻⁵
Melting Point	D3418	°F	430
Continuous Use	-	°F	230
Thermal Conductivity	-	in/hr/ft ² /F°	1.4
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	320
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	175
Flammability, UL94	-	1/8 inch	HB
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	3
Surface resistivity	D257	Ohm/cm	>10 ¹³
Dielectric strength	D149	V/mil	400
Compliance Properties	tested method	unit	value
FDA	-	-	Yes
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.