MODERN plastics
Setting the Standards

Corporate Headquarters
88 Long Hill Cross Road
Shelton, CT 06484 USA
modernplastics.com

(203) 333-3128 office
(203) 333-4625 fax
(800) 243-9696 toll-free
sales@modernplastics.com

Technical data sheet

SUSTADUR PET (polyethylene terephthalate)

Product characteristics

- Excellent dimensional stability
- Very low moisture absorption & excellent creep resistance
- Good sliding properties

Typical field of application

- Mechanical & electrical engineering
- Shipbuilding
- Material handling industry

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm^3	1.41
Water Absorption 24 hours	D570	%	0.07
Water Absorption Saturation	D570	%	0.7
Dissipation Factor	D150	1 MHz	0.02
Mechanical Properties	**tested method**	**unit**	**value**
Hardness	D785	Shore D	D87
Rockwell Hardness	D785	M	M93
Rockwell Hardness	D785	R	R125
Tensile Strength at yield 73 °F	D638	psi	12,000
Tensile Modulus	D638	psi	460,000
Elongation at Break	D638	%	30
Flexural Strength	D790	psi	17,000
Flexural Modulus	D790	psi	480,000
Compressive Strength	D695	psi	15,000
Shear Strength	D732	psi	8,000
Izod Impact, Notched	D256	ft-lb/in	0.5
Coefficient of Friction	-	-	0.2
Thermal Properties	**tested method**	**unit**	**value**
CTE, linear	D696	in/in/°F	3.3x10^{-5}
Melting Point	D3418	°F	490
Continuous Use	-	°F	230
Thermal Conductivity	-	in/hr/ft2/F°	1.8
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	338
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	240
Flammability, UL94	-	⅛ inch	HB
Electrical Properties	**tested method**	**unit**	**value**
Dielectric constant	D150	-	3.1
Surface resistivity	D257	Ohm/cm	10^{16}
Dielectric strength	D149	V/mil	385
Compliance Properties	**tested method**	**unit**	**value**
FDA	-	-	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.