

Technical data sheet

SUSTASON PSU (Polysulfone)

Product characteristics

- High rigidity & good dimensional stability
- Very high continuous service temperature
- Very good hydrolysis resistance

Typical field of application

- Electrical & electronics industry
- Construction industry
- Food processing applications

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	1.24
Water Absorption 24 hours	D570	%	0.3
Water Absorption Saturation	D570	%	0.6
Dissipation Factor	D150	1 MHz	0.005
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	D80
Rockwell Hardness	D785	M	M75
Rockwell Hardness	D785	R	R125
Tensile Strength at yield 73 °F	D638	psi	10,200
Tensile Modulus	D638	psi	360,000
Elongation at Break	D638	%	30
Flexural Strength	D790	psi	15,400
Flexural Modulus	D790	psi	390,000
Compressive Strength	D695	psi	13,900
Shear Strength	D732	psi	9,000
Izod Impact, Notched	D256	ft-lb/in	1.3
Coefficient of Friction, Dynamic	-	-	0.36
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	3.1x10 ⁻⁵
Melting Point	D3418	°F	-
Continuous Use	-	°F	300
Thermal Conductivity	-	in/hr/ft ² /F°	1.7
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	359
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	345
Flammability, UL94	-	1/8 inch	V-0
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	3.06
Surface resistivity	D257	Ohm/cm	5.0x10 ¹⁶
Dielectric strength	D149	V/mil	425
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.