

Technical Data Sheet

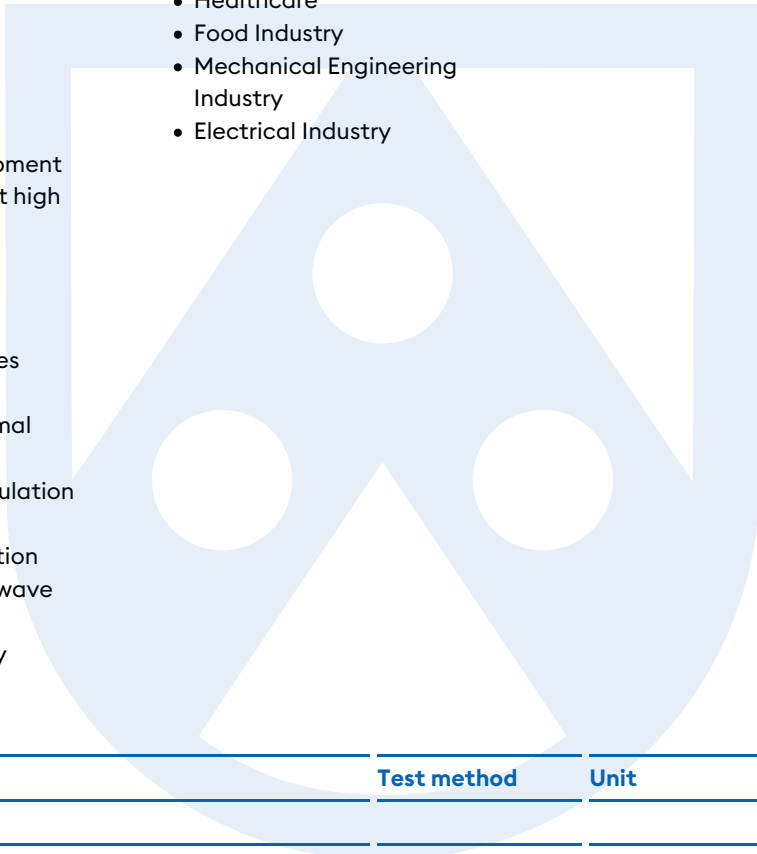
Sustason[®] PSU - ASTM

Typical characteristics

- High rigidity at good dimensional stability
- Very high continuous service temperature
- Very good hydrolysis resistance
- hardly inflammable
- Self-extinguishing
- Very low smoke development
- Good resistance against high energy radiation
- High tensile strength
- High hardness
- Good machinability
- good adhesive properties
- Very good weldability
- Low coefficient of thermal expansion
- Very good electrical insulation properties
- exceptionally low radiation absorption in the microwave range
- Good thermoformability

Typical industries

- Electronics
- Bakery and Confectionery
- Beverage Industry
- Healthcare
- Food Industry
- Mechanical Engineering Industry
- Electrical Industry



	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	1.24
Water Absorption 24 hours	ASTM D570	%	0.3
Dissipation Factor	ASTM D150	1MHz	0.005
Water Absorption Saturation	ASTM D570	%	0.6
Mechanical properties			



	Test method	Unit	Guideline value
Hardness	ASTM D2240	Shore D	80
Tensile Strength at yield 73°F	ASTM D638	psi	10200
Tensile Modulus	ASTM D638	psi	360000
Elongation at Break	ASTM D638	%	30
Flexural Strength	ASTM D790	psi	15400
Flexural Modulus	ASTM D790	psi	390000
Compressive Strength	ASTM D695	psi	13900
Rockwell Hardness	ASTM D785		75
Rockwell Hardness	ASTM D785	R	125
Shear Strength	ASTM D732	psi	9000
Izod Impact, Notched	ASTM D256	ft-lb/in	1.3
Coefficient of Friction, Dynamic			0.36
Thermal properties			
Thermal Conductivity		in/hr/ft ² /°F	1.7
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	3.1
Continuous Service Temperature, Air		°F	300
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	345
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	359
Flammability, UL94		1/8 inch	V-0
Electrical properties			
Dielectric constant	ASTM D150	1MHz	3.06
Dielectric strength	ASTM D149	V/mil	425
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.

Röchling Industrial Gastonia, LP

903 Gastonia Technology Parkway • 28034 Dallas/United States (US) • Tel. +1 704 922-7814
 info.gastonia@roechling.com • www.roechling.com/industrial/rep-us

Print: 27/07/2024 • Draft: 21/09/2023

PIM-Version: 26 • PIM-ID: 717939 • PIM-Code: 26-15-11.10.9.10.11.9.10.11.10.69.11.11.10.10.33-8.5.6.9.5.5.11-2

