

## Technical Data Sheet

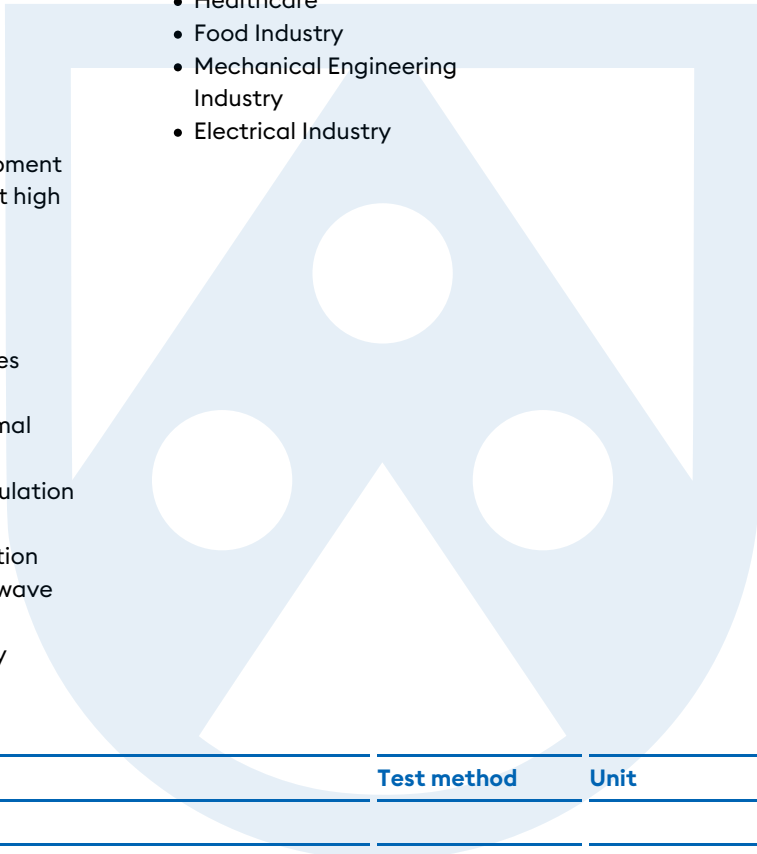
# Sustason® PSU - ASTM

### 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
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	1.24
Water Absorption 24 hours	ASTM D570	%	0.3
Dissipation Factor	ASTM D150	1MHz	0.005
Water Absorption Saturation	ASTM D570	%	0.6
<b>Mechanical properties</b>			



	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
<b>Thermal properties</b>			
Thermal Conductivity		in/hr/ft <sup>2</sup> /°F	1.7
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 <sup>-5</sup>	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
<b>Electrical properties</b>			
Dielectric constant	ASTM D150	1MHz	3.06
Dielectric strength	ASTM D149	V/mil	425
Surface resistivity	ASTM D257	Ω/cm	>10 <sup>13</sup>
<b>Compliance properties</b>			
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

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