

### Technical Data Sheet

## SustaPVDF - ASTM

#### Typical characteristics

- High purity
- high tensile strength and stiffness
- High cold impact strength
- Very good weldability
- High continuous service temperature
- good electrical insulating properties
- Chemical resistance
- Good thermoformability
- Good weather resistance

#### Typical industries

- Mechanical Engineering Industry
- Clean-Room Technology
- Electronics
- Healthcare
- Food Industry
- Chemical Processing Industry

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	1.78
Water Absorption 24 hours	ASTM D570	%	0.03
Dissipation Factor	ASTM D150	1MHz	0.06
Water Absorption Saturation	ASTM D570	%	0.05
<b>Mechanical properties</b>			
Hardness	ASTM D2240	Shore D	77
Tensile Strength at yield 73°F	ASTM D638	psi	7000
Tensile Modulus	ASTM D638	psi	250000
Elongation at Break	ASTM D638	%	100
Flexural Strength	ASTM D790	psi	8000
Flexural Modulus	ASTM D790	psi	290000
Compressive Strength	ASTM D695	psi	10500
Rockwell Hardness	ASTM D785		75
Rockwell Hardness	ASTM D785	R	84
Izod Impact, Notched	ASTM D256	ft-lb/in	3

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	Test method	Unit	Guideline value
Coefficient of Friction, Dynamic			0.58
<b>Thermal properties</b>			
Thermal Conductivity		in/hr/ft <sup>2</sup> /°F	0.75
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 <sup>-5</sup>	6.6
Melting Point	ASTM D789	°F	335
Continuous Service Temperature, Air		°F	300
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	230
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	270
Flammability, UL94		1/8 inch	V-0
<b>Electrical properties</b>			
Dielectric constant	ASTM D150	1MHz	8.5
Dielectric strength	ASTM D149	V/mil	1600
Surface resistivity	ASTM D257	Ohm/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.

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