

Technical Data Sheet

SustaPVDF - ASTM

PVDF

Typical characteristics

- High purity
- High tensile strength
- High stiffness
- High cold impact strength
- Good weldability
- High continuous service temperature
- Electrically insulating
- Chemical resistant
- Good weather resistance

Typical industries

- Chemical Processing Industry
- Clean-Room Technology
- Electronics
- Food Industry
- Healthcare
- Mechanical Engineering Industry
- Semiconductor Front-End Wet Bench

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	1.78
Water Absorption 24 hours	ASTM D570	%	0.03
Dissipation Factor	ASTM D150	1MHz	0.06
Water Absorption Saturation	ASTM D570	%	0.05
Mechanical properties			
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
Coefficient of Friction, Dynamic			0.58
Thermal properties			

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	Test method	Unit	Guideline value
Thermal Conductivity		in/hr/ft ² /°F	0.75
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	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
Electrical properties			
Dielectric constant	ASTM D150	1MHz	8.5
Dielectric strength	ASTM D149	V/mil	1600
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.

