



Material Data Sheet

Product: Polyvinylidene Flouride	Base Material: Film
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Description

Polyvinylidene Flouride (PVDF) is chemically inert to most acids, aliphatic and aromatic organic compounds, chlorinated solvents, alcohols, etc. PVDF also has a very high purity, abrasion resistance, and a relatively low Coefficient of Friction. PVDF demonstrates excellent weathering properties and are also extremely resistant to UV radiation and common industrial or environmental pollutants.

Typical Properties

<u>Physical and Thermal Properties</u>	Test method	Typical values			
		SI Units		US Customary Units	
Yield	internal	565 m ² /kg/μm		15,625 in ² /lb/mil	
Melting Point	ASTM D-3418	170-174 °C		338-345 °F	
<u>Mechanical Properties</u>	Test Method	MD	TD	MD	TD
Stress at Yield @ 23°C (73°F)	ASTM D-882	55 MPa	56 MPa	8,000 psi	8,100 psi
Elongation at Yield @ 23°C (73°F)	ASTM D-882	6%	6.2%	6%	6.2%
Stress at Break @ 23°C (73°F)	ASTM D-882	57 MPa	54 MPa	8,300 psi	7,800 psi
Elongation at Break @ 23°C (73°F)	ASTM D-882	200%	250%	200%	250%
Modulus @ 23°C (73°F)	ASTM D-882	2,000 MPa	2,100 MPa	290 kpsi	305 kpsi
<u>Shrinkage</u>		MD		TD	
Free shrink % @ 130 °C	30 min in oven	0.7%	0%	0.7%	0%
Free shrink % @ 150 °C	30 min in oven	1.4%	0.2%	1.4%	0.2%
<u>Electrical Properties</u>	Test Method				
Volume Resistivity @ 23°C (73°F)	ASTM D-257	7.7·10 ¹⁴ Ohm·Cm		7.7·10 ¹⁴ Ohm·Cm	
Dielectric Constant @ 1 kHz 23°C (73°F)	ASTM D-150	7.6		7.6	

The information presented in this publication is believed to be accurate and is not intended to constitute a specification. The values given reflect average material characteristics and may vary slightly between base suppliers. Users should evaluate the material to determine the suitability for their own particular application.

Base on terms and conditions
 Seller's only obligation shall be to replace such quantity of the product proven to be defective. Seller shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use, or inability to use the product for his/her use, and the user assumes all risk and liability whatsoever in connection therewith. The foregoing may not be changed, except by an agreement signed by an officer or seller. We hereby certify that goods covered by this quotation have been produced in compliance with the Fair Labor Standards Act of 1983, as amended. Any credit memos to purchaser shall expire if not used within one year from date of credit memo.