



MECHETEC[®] PVDF



Polyvinylidene Fluoride (PVDF)



High Temperature Applications



High Chemical Resistance

APPLICATIONS

Fluid Sensors
Pump Components
Manifolds and Valves
Analytical Instruments
Bearings and Bushings

KEY FEATURES

300 °F Continuous Use Temperature
Extremely Low Moisture Absorption
Flame Resistant- UL94 V-0 rated
Highly Resistant to Chemicals
Superior Electrical Properties

SHAPES AND SIZES

ROD DIAMETER

PVDF 740	0.25" - 5.0"
PVDF 1010	0.25" - 5.0"

SHEET THICKNESS

PVDF 740	0.25" - 2.0"
PVDF 1010	0.25" - 2.0"



MECHETEC®
PVDF

	Test Method	Units	PVDF 740	PVDF 1010
Mechanical				
Specific Gravity	ASTM-D792	---	1.78	1.77
Tensile Strength	ASTM-D638	psi	6,000	7,850
Tensile Elongation	ASTM-D638	%	150	80
Tensile Modulus of Elasticity	ASTM-D638	psi	228,000	348,000
Flexural Strength	ASTM-D790	psi	7,250	10,800
Flexural Modulus of Elasticity	ASTM-D790	psi	240,000	392,000
Izod Notched Impact	ASTM-D256	ft.-lb./in.	5.5	2.0
Rockwell Hardness	ASTM-D785	R scale	R84	R110
Thermal				
Coef. of Linear Thermal Expansion	ASTM-D696	in./in./deg F	6.6×10^{-5}	7.1×10^{-5}
Max. Continuous Use Temp.	UL-746	°F	300	300
Heat Deflection Temp. @ 264 psi	ASTM-D648	°F	240	235
Melting Point	ASTM-D3418	°F	340	352
Electrical				
Dielectric Strength-Short Term	ASTM-D149	volts/mil	260-280	260-280
Dielectric Constant @ 10 ⁶ Hz	ASTM-D150	---	8.2	---
Volume Resistivity	ASTM-D257	ohm-cm	10 ¹⁶	5 x 10 ¹⁴
Miscellaneous				
Water Absorption/24 hrs.	ASTM-D570	% weight	0.01 - 0.03	< 0.04
Water Absorption @ Saturation	ASTM-D570	% weight	0.03	0.08
Flammability	UL-94	---	V-0	V-0

MECHETEC® is a registered trademark of Polymer Industries

Distributed by:

 **POLYMER INDUSTRIES**

Headquarters:

PO Box 32; 10526 AL Hwy 40
Henagar, AL 35978 USA
Ph: (256) 657-5197
Fax: (256) 657-5189
Toll Free: 1-877-POLYMER (765-9637)

Mechanical Division: Pisgah, AL
Ultrapoly Division: Tacoma, WA
Midwest Distribution: Bolingbrook, IL
West Coast Distribution: Salt Lake City, UT
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