



# POLYMER INDUSTRIES

## PVDF

### Typical Properties

Property	Test Method	Units	PVDF 740	PVDF 1010
<b>Mechanical</b>				
Specific Gravity	ASTM-D792	---	1.78	1.77
Tensile Strength	ASTM-D638	psi	6,000	7,850
Elongation at Break	ASTM-D638	%	150	80
Tensile Modulus	ASTM-D638	psi	228,000	348,000
Flexural Strength	ASTM-D790	psi	7,250	10,800
Flexural Modulus	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
<b>Thermal</b>				
Coef. Of Linear Thermal Expansion	ASTM-D696	in./in./°F	6.6x10 <sup>-5</sup>	7.1x10 <sup>-5</sup>
Max Continuous Temp.	Internal Std.	°F	300	300
Heat Defl. Temp. @ 264 psi	ASTM-D648	°F	240	235
Melting Point	ASTM-D3418	°F	340	352
<b>Electrical</b>				
Dielectric Strength-Short Term	ASTM-149	volts/mil	260-280	260-280
Dielectric Constant @ 10 <sup>6</sup> Hz	ASTM-D150	---	8.2	---
Volume Resistivity	ASTM-D257	ohm-cm	10 <sup>16</sup>	5x10 <sup>14</sup>
<b>Miscellaneous</b>				
Water Absorption/24 hours	ASTM-D570	% weight	0.25	>0.04
Water Absorption @ Saturation	ASTM-D570	% weight	0.8	0.08
Flammability	UL-94		HB	V-0

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