



PVDF Property

Physical Properties			Kynar 450	Kynar 740	Kynar 1000	Kynar 2850	CF15
Specific Gravity	D792	g/cm ³	1.75 – 1.77	1.77-1.99	1.76-1.78	1.77-1.80	1.76
Melting Temp	D3418	°F	311-320	329-342	337-340	311-320	410-550
Water Absorption	D570	%	0.04	0.01-0.03	0.01-0.03	0.03-0.05	
Mechanical Properties							
Tensile Yield Strength	D638	psi (K)	5.0 - 7.0	6.5-8.0	6.5-8.0	4.5-5.0	14
Tensile Beak Strength	D638	psi (K)	4.5 - 7.0	5.0-8.0	5.0-7.0	4.0-7.0	-
Break Elongation	D638	%	50-250	50-200	20-100	30-200	1 - 3
Tensile Modulus	D638	psi (K)	150 - 200	200-335	200-335	150-220	1400
Flexural Strength	D790	psi (K)	7.0 - 9.0	8.5 – 11.0	8.5 – 11.0	3.0-5.0	20
Flexural Modulus	D790	psi (K)	200- 260	240-335	240-335	150-180	1150
Compressive Strength	D695	psi (K)	8 - 10	10-15	10-15	6.0-8.5	-
Izod Impact Strength (notched)	D256	ft-lb/in	2 - 4	2 - 4	2 - 4	2-8	1.5
Izod Impact Strength (unnotched)	D256	ft-lb/in	15 - 40	20 – 80	20 - 80	NB	9.0
Hardness	D2240	Shore D	75 - 80	76 - 80	77 - 82	70-75	-
Thermal Properties							
Deflection Temp @ 66 psi	D648	°F	234-284	257-284	-	140-167	-
Deflection Temp @ 264 psi	D648	°F	176-194	221-239	220-230	100-131	-
Electrical Properties							
Volume Resistivity	-	Ohm-cm	2 x 10 ¹⁴	2 x 10 ¹⁴	2 x 10 ¹⁴	2 x 10 ¹⁴	-
Dielectric Constant	D150-100Hz	-	4.5-9.5	4.5-9.5	4.5-9.5	3.5 – 10.2	-

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