



CT Gasket & Polymer Co., Inc.

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PVDF (Kynar[®])

PVDF is a high-molecular-weight polymer of vinylidene fluoride. It is a crystalline material with a melting point of 338° F. PVDF has outstanding resistance to most mineral and organic acids, aliphatic and aromatic hydrocarbons, alcohols, halogenated solvents, and oxidizing environments. PVDF has greater strength, wear resistance, and creep resistance than PTFE, FEP, and PFA.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	UNITS	ASTM	TYPICAL
Specific Gravity, 73° F.	-	D792	1.78
Tensile Strength, 73° F.	psi	D-638	5200 – 7400
Tensile Modulus of Elast, 73° F.	psi	D-638	348,000
Elongation, 73° F.	%	D-638	50 – 250
Flexural Strength, 73° F.	psi	D-790	10,750
Flexural Modulus of Elast., 73° F.	psi	D-790	300,000
Shear Strength, 73 Deg. F.	psi	D-732	-
Compressive Strength, 10% deformation	psi	D-695	8.0 – 10.0
Coefficient of Friction (Dry vs. Steel)	-	-	0.25
Tensile Impact (notched), 73° F.	ft lb/in	D-256	-
Coefficient of Linear Therm. Expansion	in/in/F.	D-696	7.1 x 10(-5)
Heat Deflection Temp. @ 264 psi	Deg. F.	D-648	183 –244
Melting Point	Deg. F.	D-789	345
Continuous Service Temp., Air, Max.	Deg. F.	-	285
Dielectric Strength	V/mil	D-149	280
Volume Resistivity	ohm-cm	D-257	2 x 10(14)
Water Absorption, Immersion - 24 hrs.	%	D-570	0.04

This information is only to assist and advise you on current technical knowledge and is given without obligation or liability.