E. Jordan Brookes
Engineered Metals and Plastics
Quality Plastics Since 1936

KYNAR ® PVDF

Characteristics

* High Impact Resistance
* UV Resistant
* Thermally Stable
* High Tensile Strength

Description

Kynar PVDF is used extensively in chemical processing applications due to its unique combination of properties. Possesing excellent chemical resistance strength and durability coupled with an ease of fabrication makes it an ideal choice for many demanding applications.

Forms Available

ROD	.250" to 2.000" dia
PLATE	.125" to 2.000" thick
COLOR	Black and Natural

Typical Property Values

		Kynar®
MECHANICAL @ 73ºF		
Specific Gravity		1.77
Tensile Strength	psi	6,300
Tensile Modulus of Elasticity	psi	290,000
Tensile Elongation (at Break)	%	50
Flexural Strength	psi	9,700
Flexural Modulus of Elasticity	psi	290,000
Shear Strength	psi	
Compressive Strength, 10% Deformation	psi	9,000
Compressive Modulus of Elasticity	psi	
Shore Hardness	D Scale	75
Izod Impact Strength, Notched	ft-lbs/in. of notch	3.00
Coefficient of Friction, Dynamic (Dry vs. Steel)		
Limiting PV (4 :1 Safety Factor Applied)	ft.lbs/in.^{2} min	
Wear Factor	in^3-min/ft.lbs. hr.	
Water Absorption 24 hrs	% by wt.	0.03
THERMAL		
Coefficient of Linear Expansion (-40ºF to 300ºF)	in./in./ºF	6.6×10^{-5}
Heat Deflection Temperature @264 psi	ºF	230
Melting Point (Crystalline)	ºF	332
Continuous Service Temperature in Air	ºF	275
Thermal Conductivity	ºF	
ELECTRICAL		
Dielectric Strength, Short Term	Volts/mil	1,700
Volume Resistivity	Ohms-cm	1.5×10^{15}
Dielectric Constant	1 MHz	8.5
Dissipation Factor	1 MHz	0.05

(Properties listed above are provided for reference only, they should not be used for design specifications or quality control , Kynar is a registered Trademark of Elf Autochem)