

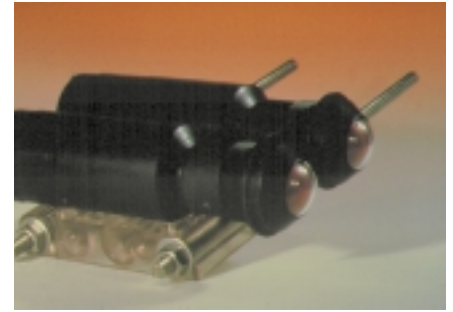
Static Control PVDF

(conductive polyvinylidene fluoride)

PVDF CN-P (Conductive KYNAR® Polyvinylidene Fluoride) Carbon-powder-filled, thermally stable, conductive material with consistent resistivities < 10⁵. This material is extremely tough with good flame and abrasion-resistance. Resistant to many chemistries and solvents, including strong acids. Due to the carbon powder fill, this material is also available in film format as thin as .002".

PVDF CN-F (Conductive KYNAR® Polyvinylidene Fluoride) Non-sloughing carbon-fiber-filled material with resistance to most chemicals and solvents. Mechanically strong and tough, thermally stable to 335° F, flame and abrasion resistant, and easily fabricated into finished parts.

The following physical property information is based on typical values of the resin.



	Units	ASTM Test	PVDF CN-P	PVDF CN-F
Mechanical				
Tensile strength @yield	psi	D638	5,200	20,500
Tensile elongation @break	%	D638	15.0	4.5
Flexural strength	psi	D790	6,500	26,500
Flexural modulus	psi	D790	135,000	1,240,000
Izod impact strength				
Notched	ft•lbs/in	D256	No Break	1.7
Un-Notched	ft•lbs/in	D256	No Break	10.0
Hardness-Shore D		D2240	-	82
Thermal				
Heat deflection temperature				
@264 psi	°F	D648	133	335
Electrical				
Surface resistivity dry	ohm/sq	D257	<10 ⁵	10 ² - 10 ⁸
Volume resistivity dry	ohm/cm	D257	<10 ⁵	10 ² - 10 ⁶
Static Decay	seconds	Mil-B-81705-B	-	<0.1
Other				
Specific gravity		D792	1.74	1.77
Water absorption @24 hours	%	D570	<0.06	-

Applications Include:

- Semiconductor/electronic components
- Automotive assembly equipment
- Petrochemical connectors and gaskets

Advantages of PVDF CN-P and CN-F:

- Outstanding chemical resistance
- Elevated temperature compatibility
- High strength
- High impact resistance

Manufacturing Capabilities:

- Rod:** 1/8" to 4" diameter
- Sheet:** .030" to 4" thick
- Film (CN-P only):** .002" to .029" thick

Colors/Grades:

- CN-P—Black
- CN-F—Black

*In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.



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