



PVDF® CN-F / CN-P

Conductive PolyVinylidene Fluoride / Conductive PVDF



** PVDF® is the registered trademark of

WESTLAKE PLASTICS COMPANY

PRODUCT CAPABILITIES:

- Heavy Gauge Sheet : 1/4" - 2"

ADVANTAGES:

- Carbon Fiber Filled
- Non-Sloughing
- Highly Chemical Resistant
- Mechanically Strong And Tough
- Thermally Stable to 168°C
- Flame And Abrasion Resistant
- Easily Fabricated

PRODUCT COLORS:

- Black

APPLICATIONS INCLUDE:

- Handling Equipment in the Electrical/ Electronic Or Semiconductor Industry
- Telecommunication Hardware
- Wafer Equipment

GENERAL PROPERTIES	ASTM or UL Test	PVDF® CN-F Typical Values	PVDF® CN-P Typical Values
PHYSICAL			
Specific Gravity (g/cm ³)	D792	1.77	1.74
Water Absorption, 24 hrs (%)	D570	-	0.06
MECHANICAL			
Tensile Strength (psi)	D638	20,500	5,200
Tensile Elongation at Yield (%)	D638	4.5	15
Flexural Strength (psi)	D790	26,500	6,500
Flexural Modulus (psi)	D790	1,240,000	135,000
IZOD Notched Impact (ft-lb/in)	D256	1.7	No Break
IZOD Un-Notched Impact (ft-lb/in)	D256	10	No Break
Hardness, Shore D	D2240	82	-
THERMAL			
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	D696	-	-
Heat Deflection Temp (°F / °C) @ 264 psi	D648	335 / 168	133 / 56
Thermal Conductivity (BTU-in/ft ² -hr-°F)	C177	-	-
Flammability Rating @ .030"	UL-94	-	-
ELECTRICAL			
Surface Resistivity (ohms/sq)	D257	10 ² - 10 ⁶	<10 ⁵
Volume Resistivity (ohm-cm) at 73°F, 50% RH	D257	10 ² - 10 ⁶	<10 ⁵
Static Decay, 15% RH (seconds)	MIL-B-81705-B	< 0.1	-

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.