



TEMPALUX® CN-F / CONDUCTIVE ULTEM

Conductive PolyEtherImide / Conductive Ultem



** TEMPALUX® is the registered trademark of

**WESTLAKE PLASTICS
COMPANY**

PRODUCT CAPABILITIES:

- Heavy Gauge Sheet : 3/8" - 2"

ADVANTAGES:

- Carbon Fiber Filled
- Non-Sloughing
- Extremely Strong And Stiff
- Dimensionally Stable
- Highly Chemical Resistant
- Temperature Resistance To 417 °F / 213°C
- UL94 V-0 Rated

PRODUCT COLORS:

- Black

APPLICATIONS INCLUDE:

- Socket Tester
- Handling Equipment In The Electrical/ Electronic Or Semiconductor Industry
- Telecommunication Hardware
- Automotive Equipment

GENERAL PROPERTIES	ASTM or UL Test	TEMPALUX® CN-F Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.34
Water Absorption, 24 hrs (%)	D570	0.45
MECHANICAL		
Tensile Strength (psi)	D638	29,000
Tensile Elongation at Yield (%)	D638	2
Flexural Strength (psi)	D790	38,000
Flexural Modulus (psi)	D790	1,860,000
IZOD Notched Impact (ft-lb/in)	D256	1.4
IZOD Un-Notched Impact (ft-lb/in)	D256	7.5
Hardness, Shore D	D2240	92
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	D696	2.2
Heat Deflection Temp (°F / °C) @ 264 psi	D648	417 / 213
Thermal Conductivity (BTU-in/ft ² -hr-°F)	C177	-
Flammability Rating @ 0.030"	UL-94	V-0
ELECTRICAL		
Surface Resistivity (ohms/sq)	D257	10 ³ - 10 ⁵
Volume Resistivity (ohm-cm) at 73°F, 50% RH	D257	10 ³ - 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.

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