

Tempalux CN-F®

(conductive polyetherimide)

Non-sloughing carbon-fiber-filled material which is extremely strong and stiff, has excellent dimensional stability, and high temperature resistance to 415° F. This material has broad chemical resistance and excellent fabrication finishing characteristics. UL94 V-0 rated.

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

	Units	ASTM Test	Result
Mechanical			
Tensile strength @yield	psi	D638	29,000
Tensile elongation @break	%	D638	2.0
Flexural strength	psi	D790	38,000
Flexural modulus	psi	D790	1,860,000
Izod impact strength			
Notched	ft•lbs/in	D256	1.4
Un-Notched	ft•lbs/in	D256	7.5
Hardness-Shore D		D2240	92
Thermal			
Heat deflection temperature			
@264 psi	°F	D648	417
Coefficient of thermal expansion	in/in/°F	D696	2.2 x 10 ⁻⁵
Flammability rating-UL94 @.058"			V-0
Electrical			
Surface resistivity dry	ohm/cm	D257	10 ³ - 10 ⁵
Volume resistivity dry	ohm/cm	D257	10 ³ - 10 ⁵
Other			
Specific gravity		D792	1.34
Water absorption @24 hours	%	D570	0.45

Westlake Product Bulletin



Applications Include:

- Semiconductor/electronic components
- Hard disk drive assembly fixtures
- Aerospace test equipment

Advantages of Tempalux CN-F:

- Tight conductivity range
- Economical to competitive products
- Excellent high heat compatibility
- Superior strength and stiffness
- Excellent dimensional stability
- UL 94 V-0 rated
- Non-sloughing

Manufacturing Capabilities:

Sheet: 3/8" to 4" thick

Colors/Grades:

Black

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

WESTLAKE PLASTICS COMPANY

World Headquarters
P.O. Box 127, Lenni, PA 19052
1-800-999-1700 • Fax: (610) 459-1084

www.westlakeplastics.com

West Coast Office
377 E. Chapman Ave., Suite 120, Placentia, CA 92870
1-800-440-0597 • Fax: (714) 961-0978

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