

Tempalux® CN-F

Polyethylene Terephthalate

Westlake Plastics Company

Message:

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.

Advantages:

- 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

Applications:

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

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	High Heat Resistance		
	High Stiffness		
	High Strength		
	Non-Sloughing		
	Semi Conductive		
Uses	Aerospace Applications		
	Electrical Parts		
	Electrical/Electronic Applications		
Appearance	Black		
Forms	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.45	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	92		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	200	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	12800	MPa	ASTM D790

Flexural Strength	262	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	75	J/m	ASTM D256
Unnotched Izod Impact	400	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	214	°C	ASTM D648
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+5	ohms	ASTM D257
Volume Resistivity	1.0E+3 to 1.0E+5	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.47 mm)	V-0		UL 94

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