

Westlake Plastics Tempalux® CN-F Polyetherimide (conductive)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

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

Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Tempalux-CN-F-Polyetherimide-conductive.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
Water Absorption	0.45 %	0.45 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	92	92	ASTM D2240
Tensile Strength, Yield	200 MPa	29000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	262 MPa	38000 psi	ASTM D790
Flexural Modulus	12.8 GPa	1860 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm	1.40 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.00 J/cm	7.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	39.6 µm/m-°C	22.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	214 °C	417 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.47 mm	@Thickness 0.0580 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm - 1e+05	10000 ohm-cm - 1e+05	Dry; ASTM D257
Surface Resistance	10000 ohm - 1e+05	10000 ohm - 1e+05	Dry; ASTM D257

Static Decay Electrical Properties	≤ 0.10 sec Metric	≤ 0.10 sec English	15% RH: MIL-B-81705-B Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China