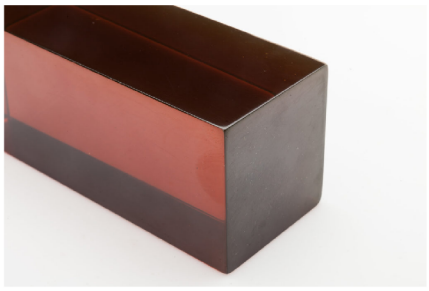
P: 1.800.999.1700 | F: 610.459.1084 | info@westlakeplastics.com | 490 West Lenni Road, Lenni, PA 19052 U.S.A.

Tempalux®

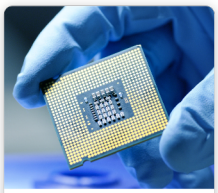


Tempalux® Polyetherimide (PEI) is made from resin that is suitable for use in certain food contact applications, contact your local Westlake Plastics representative for specific regulatory declarations. Tempalux is an amorphous material that offers a combination of useful characteristics, including high dielectric strength, high strength at elevated temperatures (up to 180°C for extended periods of time), high modulus, and broad chemical resistance. Tempalux® is inherently flame resistant with low smoke emission. The material has good resistance to environmental stress cracking when exposed to a wide variety of chemicals.

INDUSTRY

Aerospace & Defense

Chemical Process



Semiconductor and ESD

COLORS AVAILABLE

Black Natural

ATTRIBUTES

- Chemical Resistance
- Dimensional Stability
- Dielectric Properties
- Food Contact
- Heat Resistant

SHAPES

- Extruded Slab
- Extruded Sheet
- Extruded Film
- Extruded Rod

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TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Flexural Modulus	D790	497 kpsi	3,430 MPa
Flexural Strength - Yield	D790	25 kpsi	173 MPa
Izod Impact Resistance - Notched	D256	0.99 ft-lb/in	53 J/m
Tensile Elongation @ Break	D638	60.00 %	60.00 %
Tensile Elongation @ Yield	D638	7.00 %	7.00 %
Tensile Modulus	D638	519 kpsi	3,580 MPa
Tensile Strength @ Break	D638	13 kpsi	90 MPa
Tensile Strength @ Yield	D638	15 kpsi	110 MPa
Thermal			
HDT @ 264 psi	D648	393 °F	201 °C
Physical			
Moisture Absorption	D570	0.25 %	0.25 %
Specific Gravity	D792	1.27	1.27
Electrical			
Volume Resistivity	D257	1 x 10^{17} ohm-cm	1 x 10^{17} ohm-cm

*Data above is based on testing of injection molded test specimens

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PRODUCT SHAPES & DIMENSIONS

Rods: 48"L (122cm)

2.25" (57.15mm)	2.5" (63.5mm)	2.75" (69.85mm)	3" (76.2mm)	3.25" (82.55mm)	3.5" (88.9mm)
3.75" (95.25mm)	4" (101.6mm)	4.25" (107.95mm)	4.50" (114.3mm)	4.75" (120.65mm)	

Rods: 96"L (244cm)

0.5" (12.7mm)	0.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)	1.5" (38.1mm)	1.75" (44.45mm)
2" (50.8mm)					

Extruded Slabs: 24"W (61cm)

1.5" (38.1mm)	2" (50.8mm)

Extruded Sheets: 48"W x 96"L (122cm x 244cm)

0.03" (0.76mm)	0.035" (0.89mm)	0.06" (1.52mm)	0.062" (1.57mm)	0.08" (2.03mm)	0.09" (2.29mm)
0.095" (2.41mm)	0.125" (3.18mm)	0.1875" (4.76mm)	0.25" (6.35mm)		

Extruded Films: 26"W (66cm)

0.002" (0.05mm)	0.005" (0.13mm)	0.010" (0.25mm)	0.020" (0.51mm)

LAST REVISED: 08/28/2025

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