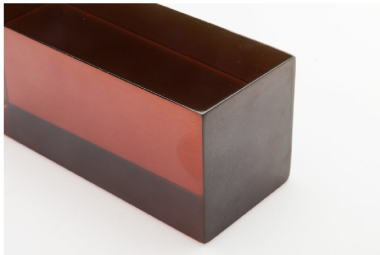




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 490 West Lenni Road
 Lenni, PA 19052 U.S.A.
 Email: info@westlakeplastics.com

Tempalux®



Tempalux® Polyetherimide (PEI) 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.

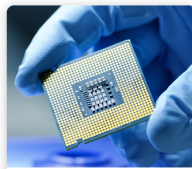
INDUSTRY



Aerospace



Chemical Process



Semiconductor and
ESD

COLORS AVAILABLE



ATTRIBUTES

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

SHAPES

Extruded Slab	✓
Compression Sheet	✓
Extruded Sheet	✓
Extruded Film	✓
Extruded Rod	✓



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TECHNICAL SPECIFICATIONS

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, 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	309,981 ohm-ft	10,170 ohm-cm

SIZING



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Tempalux®

Rod Sizing

48" Length

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)	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)

96" Length

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)	2.25" (57.15mm)	2.50" (63.5mm)	2.75" (69.85mm)	3" (76.2mm)	3.25" (82.55mm)
3.50" (88.9mm)	3.75" (95.25mm)	4" (101.6mm)	4.25" (107.95mm)	4.50" (114.3mm)	4.75" (120.65mm)

Slab Sizing

" Length by 24" Width

0.25" (6.35mm)	0.375" (9.53mm)	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)			

Compression Sheet Sizing

48" Length by 24" Width

0.375" (9.53mm)	0.5" (12.7mm)	0.75" (19.05mm)
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Extruded Sheet Sizing

96" Length by 48" Width

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)		

Film Sizing

26" Width

0.002" (0.05mm)	0.003" (0.08mm)	0.004" (0.1mm)	0.005" (0.13mm)	0.01" (0.25mm)	0.02" (0.51mm)
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LAST REVISED: 06/06/2022

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