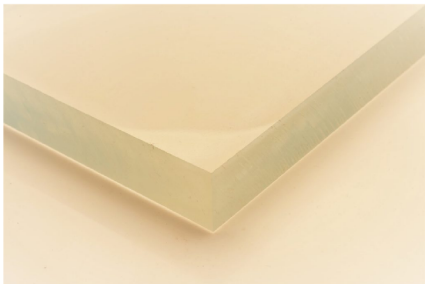




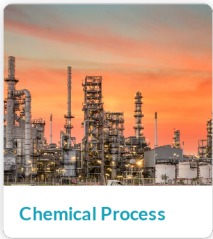
P: 1.800.999.1700 | F: 610.459.1084 | info@westlakeplastics.com | 490 West Lenni Road, Lenni, PA 19052 U.S.A.

# Thermalux® PSU



Thermalux® Polysulfone (PSU) is made from resin that is suitable for use in certain food contact applications, contact your local Westlake Plastics representative for specific regulatory declarations. Thermalux PSU is an amber colored, semi-transparent, heat-resistant, high performance engineering thermoplastic that offers higher heat resistance and better hydrolytic stability than polycarbonate (PC). It retains its good mechanical properties when exposed to steam and other sterilization techniques.

INDUSTRY



COLORS AVAILABLE



ATTRIBUTES

Food Contact	✓
Dimensional Stability	✓
Biocompatibility	✓
Dielectric Properties	✓
Transparent	✓
Heat Resistant	✓

SHAPES

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



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# Thermalux® PSU

## TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
<b>Mechanical</b>			
Flexural Modulus	D790	390 kpsi	2690 MPa
Flexural Strength - 5%	D790	15 kpsi	106 MPa
Izod Impact Resistance - Notched	D256	1.29 ft-lb/in	69 J/m
Tensile Elongation @ Break	D638	50-100%	50-100%
Tensile Modulus	D638	359.7 kpsi	2480 MPa
Tensile Strength @ Break	D638	10.2 kpsi	70 MPa
<b>Thermal</b>			
HDT @ 264 psi	D648	345°F	174°C
<b>Physical</b>			
Moisture Absorption	D570	0.030%	0.030%
Specific Gravity	D792	1.24	1.24
<b>Electrical</b>			
Volume Resistivity	D257	1 x 10 <sup>16</sup> ohm-cm	1 x 10 <sup>16</sup> ohm-cm

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



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# Thermalux® PSU

## 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)				

### 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)

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)				

### Compression Sheets: 24"W x 48"L (61cm x 122cm)

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

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)				

### 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)		



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# Thermalux® PSU

Extruded Films: 26"W (66cm)

0.002" (0.05mm)	0.003" (0.08mm)	0.004" (0.1mm)	0.005" (0.13mm)	0.010" (0.25mm)	0.020" (0.51mm)
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LAST REVISED: 01/05/2024

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