





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

# Thermalux® PESU



Thermalux® Polyethersulfone (PESU) 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 is an amber colored, semi-transparent, high performance engineering thermoplastic. Thermalux® PESU combines good chemical resistance with a high heat deflection temperature (204°C / 399°F), making it an excellent choice for food service applications. This resin is also inherently flame retardant making it suitable for use in electronic components.

#### INDUSTRY





COLORS AVAILABLE



### ATTRIBUTES



### SHAPES

Extruded Slab	
Extruded Sheet	<b>Ø</b>
Extruded Film	<b>⊘</b>
Extruded Rod	<b>⊘</b>







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

# Thermalux® PESU

### TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Tensile Strength @ Yield	D638	13.2 kpsi	91 Mpa
Tensile Elongation @ Yield	D638	6.9%	6.9%
Tensile Elongation @ Break	D638	>50%	>50%
Tensile Modulus	D638	377 kpsi	2600 Mpa
Flexural Strength	D790	18 kpsi	124 Mpa
Flexural Modulus	D790	392 kpsi	2700 Mpa
Izod Impact Resistance - Notched	d D256	1.3 ft-lb/in	0.07 kJ/m
Thermal			
HDT @ 264 psi	D648	392°F	200°C
Physical			
Moisture Absorption	D570	0.56%	0.56%
Specific Gravity	D792	1.37	1.37

<sup>\*</sup>Data above is based on testing of injection molded test specimens







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

## Thermalux® PESU

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)				
0.5" (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)					
Extruded Sheets: 4	18"W x 96"L (122cm x 2	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)	0.003" (0.08mm)	0.004" (0.1mm)	0.005" (0.13mm)	0.01" (0.25mm)	0.02" (0.51mm)

#### LAST REVISED: 01/30/2025

This information is offered solely for your consideration, examination and verification, and is to be construed neither as a warranty nor guarantee that the same results as those stated herein will be obtained by the use to which others may put the material. Each user of the material should make his own tests to determine the characteristics and suitability of the material for his own particular use and the use which will be made of the completed product. This publication is not to be taken as a license to operate under, or a recommendation to infringe any patents. The observance of all legal regulations and patents is the responsibility of the user. The buyer's exclusive remedy against the seller shall be for the repair or replacement of defective stock. No other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or other incidental or consequential loss) shall be available to the buyer.

EXCLUSION OF WARRANTIES: THERE ARE NO WARRANTIES AS TO THE MATERIAL DESCRIBED HEREIN, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. ANY VALUES STATED IN SELLER'S ITERATURE ARE TYPICAL PROPERTIES ONLY.