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# Thermalux® PPSU



Thermalux® Polyphenylsulfone (PPSU) is a transparent and rigid high-temperature engineering thermoplastic and belongs to the sulfone family of polymers. It is known for its extreme toughness, high flexural and tensile strength, excellent hydrolytic stability and good resistance to chemicals and heat.

#### INDUSTRY







#### COLORS AVAILABLE





#### **ATTRIBUTES**



### SHAPES

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## TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS			
Mechanical						
Flexural Modulus*	D790	337 kpsi	2,323 MPa			
Flexural Strength - 5%*	D790	14.4 kpsi	99.3 MPa			
Izod Impact Resistance - Notched	* D256	3.06 ft-lb/in	163 J/m			
Tensile Elongation @ Break*	D638	23.7%	23.7%			
Tensile Elongation @ Yield*	D638	7.40 %	7.40 %			
Tensile Modulus*	D638	339 kpsi	2,340 MPa			
Tensile Strength @ Break*	D638	9.9 kpsi	68.3 MPa			
Tensile Strength @ Yield*	D638	11.6 kpsi	79.9 MPa			
Thermal						
HDT @ 264 psi**	D648	404 °F	207 °C			
Physical						
Moisture Absorption**	D570	0.37 %	0.37 %			
Specific Gravity**	D792	1.29	1.29			
Electrical						
Volume Resistivity**	D257	1 x 10 <sup>15</sup> ohm-cm	1 x 10 <sup>15</sup> ohm-cm			
*Data above is based on testing or machined test specimens made from extruded bar stock						

<sup>\*\*</sup>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)				
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)	3.75" (95.25mm)	4" (101.6mm)			
Extruded Sheets: 48	8"W x 96"L (122cm x 2	44cm)			
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

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