



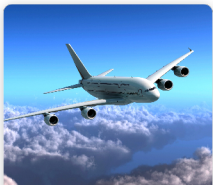
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# Thermalux® PPSU



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



Aerospace



Chemical Process



Engineering

COLORS AVAILABLE



Black



Natural

ATTRIBUTES

 Impact Resistance	✓
 Chemical Resistance	✓
 Heat Resistant	✓
 Dimensional Stability	✓
 Dielectric Properties	✓

SHAPES

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



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## TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
<b>Mechanical</b>			
Flexural Modulus	D790	349 kpsi	2,410 MPa
Flexural Strength - 5%	D790	13, kpsi	91 MPa
Izod Impact Resistance - Notched	D256	12.92 ft-lb/in	690 J/m
Tensile Elongation @ Break	D638	60-120%	60-120%
Tensile Elongation @ Yield	D638	7.20 %	7.20 %
Tensile Modulus	D638	339 kpsi	2,340 MPa
Tensile Strength @ Break	D638	10 kpsi	69 MPa
<b>Thermal</b>			
HDT @ 264 psi	D648	404 °F	207 °C
<b>Physical</b>			
Moisture Absorption	D570	0.37 %	0.37 %
Specific Gravity	D792	1.29	1.29
<b>Electrical</b>			
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 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"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)	0.003" (0.08mm)	0.004" (0.1mm)	0.005" (0.13mm)	0.01" (0.25mm)	0.02" (0.51mm)
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LAST REVISED: 01/05/2024

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