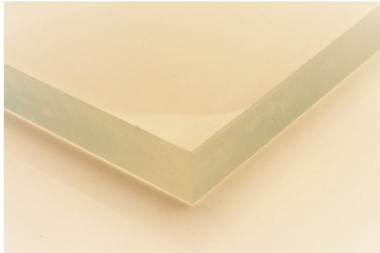




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Thermalux® PSU



Thermalux® Polysulfone (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.

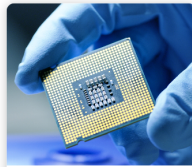
INDUSTRY



Chemical Process



Life Sciences



Semiconductor and
ESD

COLORS AVAILABLE



ATTRIBUTES



Transparent



Dielectric Properties



Food Contact



Dimensional Stability



Heat Resistant



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	390 kpsi	2690 MPa
Flexural Strength - 5%	D790	15 kpsi	106 MPa
Izod Impact, 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
Thermal			
HDT @ 264 psi	D648	345°F	174°C
Physical			
Moisture Absorption	D570	0.030%	0.030%
Specific Gravity	D792	1.24	1.24
Electrical			
Volume Resistivity	D257	30,697,680 ohm-ft	1,016,000 ohm-cm

SIZING

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)			

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)
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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)				

Thermalux® PSU

Compression Sheet Sizing

48" Length by 24" Width

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)				

96" Length by 48" Width

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 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)	0.010" (0.25mm)	0.020" (0.51mm)
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LAST REVISED: 06/06/2022

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