

PSU THERMALUX® PSU

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Thermalux PPSU a superior combination of high performance properties that include excellent thermal stability, outstanding toughness, and good environmental stress cracking resistance.

Property	Units	ASTM	Result
Mechanical			
Tensile Strength @yield	psi	D638	10,2000
Tensile Strength @break	psi	D638	-
Tensile Modulus	psi	D638	360,000
Tensile Elongation @yield	%	D638	5.0-6.0
Tensile Elongation @break	%	D638	50.0-6.0
Flexural Strength @yield	psi	D790	15,400
Flexural Modulus	psi	D790	390,000
Compressive Strength @yield	psi	D695	13,900
Compressive Modulus	psi	D695	-
Izod Impact Strength			
Un-Notched	ft-lbs/in	D256	No Break
Notched @73°F	ft-lbs/in	D256	1.3
Hardness (R, M, L or D)	-	D785 D2240	R120 M69
Thermal			
Heat Deflection Temperature @66 psi	°F	D648	358
@264 psi	°F	D648	345
Coefficient of Thermal Expansion	in/in/°F	D696	3.1x10 ⁻⁵
Flammability Rating-UL94 @.176"	-	-	V-0
Thermal Conductivity	(BTU·in)/(hr·ft ² ·°F)	C177	1.80
Limiting Oxygen Index	%	D2863	30.0
Electrical			
Dielectric Strength	V/mil	D149	425
Dielectric Constant @1kHz	-	D150	3.06
Dissipation Factor @1kHz	-	D150	0.0010
Volume Resistivity	ohm·cm	D257	5.0x10 ¹⁶
Optical			
Haze	%	D1746	5.0
Transparency	%	D1746	75
Other			
Specific Gravity	-	D792	1.24
Water Absorption @24 hours	%	D570	0.30

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Applications Include:

- High Temperature Lighting
- Hardware, Fasteners
- Tool Handles
- Trays
- Ducting
- Paneling
- Metal Replacement / Weight Reduction

Manufacturing Capabilities:



Colors:

Transparent Amber

In addition to our standard capabilities, Westlake also has the ability to process custom resins in various sizes and colors with some exceptions.



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