

# PEI TEMPALUX®

Tempalux® is a Registered Trademark of Westlake Plastics Co.

Tempalux is an amorphous PEI polymer. Tempalux offers a combination of useful characteristics, including high dielectric strength, high strength at elevated temperatures, high modulus, and broad chemical resistance. Tempalux is inherently flame resistant with low smoke emission. Tempalux displays property retention and resistance to environmental stress cracking when exposed to a wide variety of chemicals. Tempalux rod and slab are air annealed to minimize residual stress.

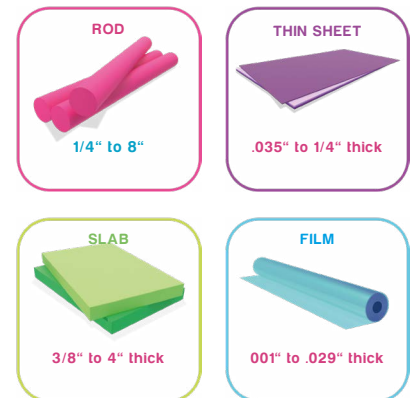


Property	Units	Test Standard	Result
<b>Mechanical</b>			
Tensile Strength @yield	psi	ASTM D638	10,000
Tensile Elongation @break	%	ASTM D638	60.0
Flexural Strength @yield	psi	ASTM D790	12,200
Flexural Modulus	psi	ASTM D790	305,000
Compressive Strength @yield	psi	ASTM D695	12,200
Izod Impact Notched @73°F	ft·lbs/in	ASTM D256	4.2
Hardness	R Scale	ASTM D7852	R125
<b>Thermal</b>			
Heat Deflection Temperature @264 psi	°F	ASTM D648	347
Coefficient of Thermal Expansion	in/in/°F	ASTM D696	3.4x10 <sup>-5</sup>
Flammability Rating	—	UL94	V-2
<b>Electrical</b>			
Dielectric Strength	kV/mil	ASTM D149	990
Dielectric Constant @1MHz	—	ASTM D150	3
Dissipation Factor @1kHz	—	ASTM D150	0.015
Volume Resistivity	ohm·cm	ASTM D257	2x10 <sup>16</sup>
<b>Optical</b>			
Transparency @3mm	%	ASTM D1003	87
<b>Other</b>			
Specific Gravity	—	ASTM D792	1.21
Water Absorption @24 hours	%	ASTM D570	0.26

## Applications Include:

- Electrical Connectors / Fittings
- Electrical Insulating Components like housings, shafts and levers
- Radomes
- Seating Components - Legs, Spreader Bars, Seat Pans, Trays and Video Arms
- Plenum devices
- Fuel cell components
- Metal Replacement / Weight Reduction

## Manufacturing Capabilities:



## Colors:

Light 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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