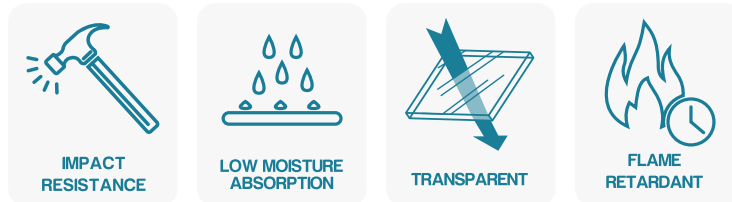


PEI TEMPALUX® WM

Tempalux® is a Registered Trademark of Westlake Plastics Co.

Tempalux WM is Westlake Plastics' medical grade of polyetherimide (PEI). This transparent amber-colored amorphous thermoplastic exhibits excellent resistance to a wide range of chemicals and offers outstanding strength and stiffness over a broad temperature range maintaining performance up to 180C for extended periods of time. The material is FDA, USP VI and ISO-10993 compliant. Its regulatory compliance profile and lot traceability make it ideal for use in medical and life science applications. Sterilization methods include EtO gas, radiation, steam autoclaving, dry heat and cold sterilization.



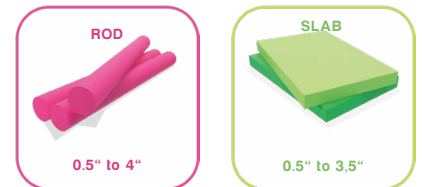
The following physical property information is based on typical values of the base polyetherimide resin.

Property	Units	Test Standard	Unfilled	20% GF	30% GF
Mechanical					
Tensile Strength @yield	psi	ASTM D638	16,000	20,100	24,500
@break	psi	ASTM D638	13,100	19,000	23,000
Tensile Modulus	psi	ASTM D638	520,000	1,000,000	1,350,000
Tensile Elongation @yield	%	ASTM D638	7.0	—	—
Tensile Elongation @break	%	ASTM D638	60.0	4.0	3.0
Flexural Strength @yield	psi	ASTM D790	24,000	30,000 @break	30,000 @break
Flexural Modulus	psi	ASTM D790	510,000	1,000,000	1,300,000
Izod Impact Strength Un-Notched	ft-lbs/in	ASTM D4812	25.0	9.0	8.0
Notched @73°F	ft-lbs/in	ASTM D256	1.0	1.2	1.6
Hardness	M Scale	ASTM D785	M109	M114	M114
Thermal					
Heat Deflection Temperature @66 psi	°F	ASTM D648	410	410	414
@264 psi	°F	ASTM D648	394	410	410
Coefficient of Thermal Expansion	in/in/°F	ASTM E831	3.1x10 ⁻⁵	1.4x10 ⁻⁵	1.1x10 ⁻⁵
Flammability Rating	—	UL94	@.118" 5VA @.0295" V-0	@.016" V-0	@.010" V-0
Limiting Oxygen Index	%	ASTM D2863	47.0	50.0	50.0
Electrical					
Dielectric Strength .063" in oil	V/mil	ASTM D149	710	670	770
Dielectric Constant @1kHz	—	ASTM D150	3.15	3.50	3.70
Dissipation Factor @1kHz	—	ASTM D150	0.0012	0.0015	0.0015
Volume Resistivity	ohm-cm	ASTM D257	1.0x10 ¹⁷	7.0x10 ¹⁶	3.0x10 ¹⁶
Other					
Specific Gravity	—	ASTM D792	1.27	1.42	1.51
Water Absorption @24 hours	%	ASTM D570	0.25	.019	0.16

Applications Include:

- Burn-in test sockets
- Connectors
- Automotive components
- Valves, electrical fittings

Manufacturing Capabilities:



Colors:

Amber - unfilled

Tan/Green - glass filled

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

This information is offered solely for your consideration, examination and verification, and is to be construed neither as a warranty nor guarantee that the same results as those stated herein will be obtained by the use to which others may put the material. Each user of the material should make his own tests to determine the characteristics and suitability of the material for his own particular use and the use which will be made of the completed product. This publication is not to be taken as a license to operate under, or a recommendation to infringe any patents. The observance of all legal regulations and patents is the responsibility of the user. The buyer's exclusive remedy against the seller shall be for the repair or replacement of defective stock. No other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or other incidental or consequential loss) shall be available to the buyer.



Phone : 1.610.459.1000
Phone : 1.800.000.1700
Fax : 610.459.1084

490 West Lenni road
Lenni, PA 19052
U.S.A

Email : info@westlakeplastics.com

CLICK TO OUR
WEBSITE



EXCLUSION OF WARRANTIES: THERE ARE NO WARRANTIES AS TO THE MATERIAL DESCRIBED HEREIN, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. ANY VALUES STATED IN SELLER'S LITERATURE ARE TYPICAL PROPERTIES ONLY.