

TEMPALUX® (MEDICAL GRADE)

PolyEtherImide (Medical Grade) / Ultem® (Medical Grade)



** TEMPALUX® is the registered trademark of

WESTLAKE PLASTICS COMPANY

PRODUCT CAPABILITIES:

Standard : · Rod : 1" - 3.5"
 Non-Standard : · Rod : 1/4" - 8" , ·
 Heavy Gauge Sheet : 3/8" - 4" , ·
 Film: 0.001" - 0.029"

ADVANTAGES:

- Lot Controlled And Traceable
- Resin Compliant With FDA Regulation 21 CFR 177.1595
- Resin Meets The Requirements Of USP Class VI Specifications
- Stress Relieved

PRODUCT COLORS:

- Black ● Brown ● Green
- Blue ● Grey

APPLICATIONS INCLUDE:

- Provisional Trials
- Instrument Handles
- Medical Device Components

GENERAL PROPERTIES	ASTM or UL Test	TEMPALUX® (MEDICAL GRADE) Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.27
Water Absorption, 24 hrs (%)	D570	0.25
MECHANICAL		
Tensile Strength at Yield (psi)	D638	15,200
Tensile Elongation at Yield (%)	D638	7
Compressive Strength at Yield (psi)	D695	21,900
Flexural Strength (psi)	D790	22,000
Flexural Modulus (psi)	D790	480,000
IZOD Notched Impact (ft-lb/in)	D256	1
IZOD Un-Notched Impact (ft-lb/in)	D256	25
Hardness, Rockwell M	D7852	M109
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	D696	3.1
Heat Deflection Temp (°F / °C) @ 264 psi	D648	392 / 200
Thermal Conductivity (BTU-in/ft ² -hr-°F)	C177	1.53
Flammability Rating	UL-94	V-0
ELECTRICAL		
Surface Resistivity (ohms/sq)	D257	–
Volume Resistivity (ohm-cm) at 73°F, 50% RH	D257	–
Static Decay, 15% RH (seconds)	MIL-B-81705-B	–

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.