

# 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
<b>PHYSICAL</b>		
Specific Gravity (g/cm <sup>3</sup> )	D792	1.27
Water Absorption, 24 hrs (%)	D570	0.25
<b>MECHANICAL</b>		
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
<b>THERMAL</b>		
Coeff. of Thermal Expansion (x 10 <sup>-5</sup> in./in./°F)	D696	3.1
Heat Deflection Temp (°F / °C) @ 264 psi	D648	392 / 200
Thermal Conductivity (BTU-in/ft <sup>2</sup> -hr-°F)	C177	1.53
Flammability Rating	UL-94	V-0
<b>ELECTRICAL</b>		
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.