



** TEMPALUX® is the registered trademark of

WESTLAKE PLASTICS COMPANY

PRODUCT CAPABILITIES:

- Rod : 3/8" - 4"
- Sheet : 1/4" - 2"

ADVANTAGES:

- Inherent Flame Resistance
- Extremely Low NBS Smoke Evolution
- Superior Limiting Oxygen Index
- Exceptional Tensile And Flexural Strength
- High Dielectric Strength
- Low Dissipation Factor
- Stable Electrical Properties Over A Wide Range Of Temperatures And Frequencies
- Broad Chemical Resistance
- U.V. Stable
- Excellent Finishing Characteristics

PRODUCT COLORS:

- Yellowish Brown

APPLICATIONS INCLUDE:

- Structural Probes
- Surgical Probes
- Manifolds In Pharmaceutical Process Equipment
- High Frequency Insulators Used In Microwave Communications
- Semiconductor
- Pump Housings
- Wafer Processing

GENERAL PROPERTIES	ASTM or UL Test	TEMPALUX® 30% GF / ULTEM® 2300 Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.51
Water Absorption, 24 hrs (%)	D570	0.16
MECHANICAL		
Tensile Strength (psi)	D638	24,500
Tensile Modulus (psi)	D638	1,300,000
Tensile Elongation at Break (%)	D638	3
Flexural Strength (psi)	D790	33,000
Flexural Modulus (psi)	D790	13,000,000
Compressive Strength (psi)	D695	30,700
Compressive Modulus (psi)	D695	938,000
IZOD Notched Impact (ft-lb/in)	D256	2
Hardness, Rockwell	D785	M114
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	D696	1.1
Heat Deflection Temp (°F / °C) @ 264 psi	D648	410 / 210
Limiting Oxygen Index (%)	D2863	50
Thermal Conductivity (BTU-in/ft ² -hr-°F)	C177	1.8
Flammability Rating @ .016"	UL-94	V-O
ELECTRICAL		
Dielectric Strength (V/mil) short time, @1/16" in Air	D149	770
Dielectric Constant at 1 kHz	D150	3.7
Dissipation Factor at 1 kHz	D150	0.0015
Volume Resistivity (ohm-cm) at 50% RH	D257	3.0 x 10 ¹⁶

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.