

Tempalux® Medical

Polyether Imide
Westlake Plastics Company

Message:

Medical grade Tempalux is made from Ultem® polyetherimide resin, an amorphous thermoplastic which exhibits excellent resistance to a wide range of chemicals and disinfectants. Ultem maintains its size and shape over a broad temperature range as well as tolerates a high amount of stress over extended periods of time. Recommended sterilization techniques for Tempalux include EtO gas, radiation, steam autoclaving, dry heat and cold sterilization.

Applications Include:

- Provisional trials
- Instrument handles
- Medical device components

Advantages of Medical Grade Tempalux:

- Lot controlled and traceable
- Resin compliant with FDA regulation 21 CFR 177.1595
- Resin meets the requirements of USP Class VI specifications
- Stress relieved

General Information	
Features	Amorphous
	Autoclave Sterilizable
	Ethylene Oxide Sterilizable
	Food Contact Acceptable
	Good Chemical Resistance
	Heat Sterilizable
	Radiation Sterilizable
	Steam Sterilizable
Uses	Handles
	Medical/Healthcare Applications
Agency Ratings	FDA 21 CFR 177.1595
	USP Class VI
Appearance	Black
	Blue
	Brown
	Green
	Grey
Forms	Film
	Rod
	Sheet
	Slab

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.25	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	109		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2960	MPa	ASTM D638
Tensile Strength (Yield)	105	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	7.0	%	
Break	60	%	
Flexural Modulus	3310	MPa	ASTM D790
Flexural Strength (Yield)	152	MPa	ASTM D790
Compressive Modulus	3310	MPa	ASTM D695
Compressive Strength	151	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Unnotched Izod Impact	1300	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	210	°C	
1.8 MPa, Unannealed	200	°C	
CLTE - Flow	5.6E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.22	W/m/K	ASTM C177
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.406 mm	V-0		
1.91 mm	5VA		

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