

Westlake Plastics Tempalux® Polyetherimide For Medical Applications

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

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 extended periods of time. Recommended sterilization techniques for Tempalux include EtO gas, radiation, steam autoclaving, dry heat and cold sterilization. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-Tempalux-Polyetherimide-For-Medical-Applications.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
Water Absorption	0.25 %	0.25 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	109	109	ASTM D785
Tensile Strength, Yield	105 MPa	15200 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Elongation at Yield	7.0 %	7.0 %	ASTM D638
Tensile Modulus	2.96 GPa	430 ksi	ASTM D638
Flexural Yield Strength	152 MPa	22000 psi	ASTM D790
Flexural Modulus	3.31 GPa	480 ksi	ASTM D790
Compressive Yield Strength	151 MPa	21900 psi	ASTM D695
Compressive Modulus	3.31 GPa	480 ksi	ASTM D695
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.3 J/cm	25.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	55.8 µm/m-°C	31.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.220 W/m-K	1.53 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ASTM D648
Flammability, UL94	5VA	5VA	
	@Thickness 1.91 mm	@Thickness 0.0750 in	

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