

Westlake Plastics MediPEEK T Polyetheretherketone for Medical Applications

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

MediPEEK-T is a high performance semi-crystalline thermoplastic designed for short term body contact as an implantable material. It is USP Class VI and ASTM F2026 compliant. It has excellent sterilizability and has been extensively tested to ISO-10993 requirements for short term implant. Applications Include: Short Term Orthopedic Implants Surgical Instruments Diagnostic Devices Advantages of MediPEEK-T: Biocompatibility Mechanical Strength/Toughness Sterilizable Radio Translucent ASTM F2026 Compliant ISO-10993 Information provided by Westlake Plastics Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-MediPEEK-T-Polyetheretherketone-for-Medical-Applications.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ISO 1183
Water Absorption	0.50 %	0.50 %	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	95.1 MPa	13800 psi	ISO 527
	114.0 MPa	16530 psi	Extruded Rod; ISO 527
Elongation at Break	30 %	30 %	ISO 527
Elongation at Yield	5.0 %	5.0 %	ISO 527
Tensile Modulus	3.40 GPa	493 ksi	ISO 527
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 µm/m-°C	33.3 µin/in-°F	Longitudinal; ISO 11359
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	340 °C	644 °F	DSC, Second Heating; ISO 11357
Vicat Softening Point	335 °C	635 °F	Method A; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	1.0E+15 ohm	1.0E+15 ohm	IEC 60093
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243

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