

Ultem Technical Datasheet

Key Features

- Great chemical resistance
- Great dimensional stability
- High dielectric strength
- Natural flame resistance
- Low smoke generation KPSI
- High strength

Common Applications

- Medical reusable
- Aircraft components
- Electrical components
- Circuit boards
- Surgical probes
- Wafer processing

Material Description

Ultem is a high-performance thermoplastic known for its excellent mechanical properties, high-temperature resistance, and dimensional stability. Ultem offers exceptional strength, stiffness, and creep resistance, making it suitable for applications requiring structural integrity and durability, such as aerospace components, automotive parts, and medical devices. Ultem also offers excellent chemical resistance, flame retardancy, and electrical insulation properties, making it a versatile material for a wide range of applications. Additionally, Ultem can be easily machined, molded, and fabricated into complex shapes, allowing for flexibility in design and manufacturing.

Mechanical Properties

Tensile Yield Strength Hardness Elongation at Break 16,000 PSI Rockwell M109 60%

Physical Properties

Density Thermal Conductivity Modulus of Elasticity Melting Point 0.0459 lb/in³ 1.27 g/cm³ 0.220W/m.K 519 KSI (3.58 GPa) 608 - 671°F (320 - 355 °C)

Technical Assistance

Our knowledgeable staff, supported by our in-house team of expert metallurgists and engineers, is ready to assist you with any technical inquiries.

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