



Typical Properties of

Ultem® 1000**Unfilled Polyetherimide (PEI)**

Process: Extruded

| Property | Test Method | Unit | Value |
|--|----------------|------------------------------|------------------------|
| Specific Gravity | D792 | -- | 1.28 |
| Tensile Strength | D638 | psi | 16,500 |
| Tensile Modulus | D638 | psi | 500,000 |
| Elongation | D638 | % | 80 |
| Flexural Strength | D790 | psi | 20,000 |
| Flexural Modulus | D790 | psi | 500,000 |
| Compressive Strength | D695 | psi | 22,000 |
| Compressive Modulus | D695 | psi | 480,000 |
| Hardness, Rockwell | D785 | -- | M112 (R125) |
| Hardness Durometer | -- | -- | D86 |
| Izod Impact (notched) | D256 | ft. lb of notch | 0.5 |
| Coeff. of Friction (Dynamic) | -- | dry v.s steel | 0.42 |
| Coeff. of Linear Therm. Expan. | E831/ D696 | in./in./°F | 3.1 x 10 ⁻⁵ |
| Continuous Use Temperature | -- | °F | 340 |
| Heat Deflection Temperature | D648 | °F | 400 |
| Glass Transition Temperature | D3418 | °F | 410 |
| Melting Point | D3418 | °F | N / A |
| Thermal Conductivity | E1530-11 | BTU in/hr ft ² °F | 0.85 |
| Dielectric Strength | D149 | Volts/mil | 830 |
| Surface Resistivity | EOS/ESD 511.11 | ohm/square | >10 ¹³ |
| Flammability | UL94 | -- | V-0 |
| Water Absorption, 24 hrs. | D570 | % by weight | 0.25 |
| Water Absorption, Saturation | D570 | % by weight | 1.25 |
| Limiting PV (4:1 Safety Factor) | -- | -- | 1,875 |
| K-Factor | -- | -- | 2900 |
| FDA Compliance | -- | -- | Yes |

Note: The data provided is for reference purposes only. Additional testing may be required for design specifications or quality control.
All values at 73 F unless otherwise stated.