


Material Reference:
FLUORINOID® FL316
Polyetherimide

+44 (0) 845 2505 100 
info@fluorocarbon.co.uk 
www.fluorocarbon.co.uk 

> Description >

FL316 is a high-performance engineering thermoplastic with broad chemical resistance, good wear resistance, high maximum use temperature, low flammability, excellent electrical properties and optical transparency.



> Typical Applications >

- Aerospace: High-strength, lightweight components for extreme environments.
- Automotive: Under-the-hood components, electrical connectors, and sensor housings.
- Medical Devices: Sterilisation-resistant surgical instruments and housings.
- Industrial: Chemical-resistant pump parts, manifolds, and seals.

> Typical Physical Properties

Properties	Value	Method
Specific Gravity	1.27	ASTM D792
Tensile Strength	110 MPa	ASTM D638
Elongation at Yield	7%	ASTM D638
Elongation at Break	60%	ASTM D638
Tensile Modulus	3.6GPa	ASTM D638
Coefficient of Thermal Expansion	5.4 to 5.6 X 10 ⁻⁵ °C ⁻¹	ASTM E831
Hardness Rockwell M	109	ASTM D785

These figures are typical values for the material and do not represent a product specification. Properties will vary depending on the source of raw material, method of processing, physical form of the product, direction of measurement etc.