


**Material Reference:**  
FLUORINOID® FL347  
POLYIMIDE

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## > Description >

FL 347 offers superior electrical and thermal insulation properties, great chemical resistance, high strength and toughness, and outstanding dimensional stability, while being capable of continuous operation under thermal excursion conditions. It maintains its properties across a wide temperature range, making it ideal for extreme environments.



## > Typical Applications >

- **Aerospace:** High-temperature-resistant components, insulation materials.
- **Medical Devices:** Biocompatible components and sterilisation-resistant materials.
- **Automotive:** Engine components, sensors, and electrical insulation.
- **Industrial:** Bearings, seals, and structural components in harsh environments.

## > Typical Physical Properties #

Properties	Value
Specific Gravity	1.29 - 1.38
Tensile Strength	83 MPa
Elongation (Ultimate)	7.5%
Shore D Hardness	78 - 80
Service Temperature (Min.)	-195 °C
Surface Resistivity	10 <sup>13</sup> - 10 <sup>16</sup> Ohm

# 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.