

MATERIAL DATASHEET

Material Reference:

FLUORINOID® FL441

Polyamide Imide (Green)

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> **Description** >

FL441 is a high-performance thermoplastic with good wear properties, excellent strength and stiffness, excellent dimensional stability, very good thermal stability, and excellent chemical resistance, which is developed to target the electronic, aircraft and aerospace, oil and gas, chemical and refinery, and process engineering industries.

> **Typical Physical Properties #**

Properties	Value
Specific Gravity	1.41 g/cm ³
Tensile Strength (at break)	122 MPa
Elongation at Break	6.4%
Tensile Modulus	3.7 GPa
Flexural Strength	144
Compression Strength (10%)	172 MPa
Compression Modulus	2.5 GPa
Heat Deflection Temperature (at 264 PSI)	256.7 °C
Hardness (Shore D)	90
Glass Transition Temperature	276 °C
UL94 Flammability rating	V-0 (UL 94)
Coefficient of Friction (Static)	0.18

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

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