



ULTRAM 1010

Key Features

Heat resistance • Chemical resistance •
Biocompatibility • Strength

Applications

Prototyping • End-use parts • Tooling •
Aerospace • Automotive • Medicine, dentistry •
Consumer goods

Product Description

ULTRAM™ 1010 resin is a high-performance polyetherimide (PEI) thermoplastic renowned for its strength in 3D printing. With exceptional heat resistance and the lowest coefficient of thermal expansion among FDM materials, ULTRAM 1010 resin is ideal for demanding applications. Its high strength properties make it the strongest FDM material, particularly suitable for specialized uses such as lightweight composite tooling.

Properties

Tensile modulus (XZ, ZX)	3,040, 3,000 MPa
Tensile strength at break (XZ, ZX)	79.2, 28.2 MPa
Elongation at break (XZ, ZX)	4.0, 1.1%
Flexural strength at 5% strain (XZ)	128 MPa
Flexural modulus (XZ, ZX)	2,910, 2,640 MPa
Heat deflection temperature (0.45 MPa)	216.9°C
Heat deflection temperature (1.80 MPa)	215.1°C
Glass transition temperature	209.4°C
Density	1.29 g/cm³
Flame retardancy	UL 94 V-0

Reference

For more detailed source information, please consult the original document linked [here](#). We encourage users to verify the data's relevance and suitability for their specific needs.

