



EPX 82

Alternative Designations

Epoxy

Key Features

Tough, brittle • Thermally stables • High tensile strength • Biocompatible

Description

This material has an excellent blend of toughness, stiffness, temperature resistance and high tensile strength of 80 MPa. It's UV and thermal stability makes it suitable for a wide range of applications including housings, light fixtures, jigs and more. It allows for accurate designs.

Mechanical Properties

Tensile modulus	2800 MPa
Tensile strength	80 MPa
Elongation at break	5%
Flexural strength	130 MPa
Flexural modulus	3 GPa
Hardness (Shore D)	89

Thermal Properties

Heat deflection temperature (1.80 MPa)	120°C
Heat deflection temperature (0.45 MPa)	130°C

Physical Properties

Density	1.16 g/cm ³
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Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit Materialdatacenter.com for further information on this material.