

Data Sheet: EPX 82

(Epoxy)

Details

This material has an excellent blend of toughness, stiffness, temperature resistance and high tensile strength of 82MPa. 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.

Key Features

Tough, brittle • Thermally stable • High tensile strength

Thermal Properties

Property	Value
Heat deflection [°C]	130
Coefficient of thermal expansion [K ⁻¹ · 10 ⁻⁶]	90
Thermal conductivity [W/m · K]	0.2
Specific heat capacity [J/kg · K]	1300

Mechanical Properties

Property	Value
Tensile strength [MPa]	80
Modulus of elasticity [GPa]	2.8
Flexural strength [MPa]	130
Flexural modulus [GPa]	3
Hardness	89
Impact strength [KJ/m ²]	25
Elongation at break [%]	5

Physical Properties

Property	Value
Density [g/cm ³]	1.16
Water Absorption [%]	2
Electrical Resistivity [ohm-cm]	5×10^{15}

Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit [Materialdatacenter.com](https://www.materialdatacenter.com) for further information on this material.