



# EPX 82 (Epoxy)

## Key Features

Strength • Chemical resistance • Thermal resistance

## Applications

Prototyping • End-use parts • Jigs and fixtures • Automotive • Electronics • Consumer goods

## Product Description

EPX 82 is an epoxy-based engineering material known for its exceptional durability and mechanical strength, comparable to lightly glass-filled thermoplastics like 20% GF-PBT and 15% GF-Nylon. It exhibits a heat deflection temperature ranging from 104°C to 130°C (depending on conditioning) and provides the requisite toughness for various automotive and industrial applications, including connectors, brackets, and housings.

## Properties

Tensile modulus	2,8000 MPa
Tensile strength	80 MPa
Elongation at break	5%
Flexural stress (at 5% strain)	130 MPa
Flexural modulus	3,000 MPa
Heat deflection temperature (0.45 MPa)	130°C
Heat deflection temperature (1.80 MPa)	120°C
Thermal conductivity (ASTM C518)	0.2 W/m-k
Coefficient of thermal expansion (-60, 100 °C)	90 ppm/°C
Density	1.16 g/cm <sup>3</sup>
Hardness	88D
Flame retardancy	UL 94 HB

## 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.

