



FPU 50

Alternative Designations

Flexible Polyurethane

Key Features

Semi rigid, robust • Resistant to impact and abrasion

Description

It is a highly fluorinated semi rigid elastomer with exceptional chemical resistance. It was designed for use in severe chemical environments where other materials would fail. FPU 50 has a low compression set and high fatigue resistance. It is often used in applications with important properties, such as in the electronics industry.

Mechanical Properties

Tensile modulus	700 MPa
Tensile strength	25 MPa
Elongation at break	200%
Flexural strength	30 MPa
Flexural modulus	0.83 GPa
Hardness (Shore D)	71

Thermal Properties

Heat deflection temperature (1.80 MPa)	45°C
Heat deflection temperature (0.45 MPa)	70°C

Physical Properties

Density	1.053 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.