



RPU 70

Alternative Designations

Rigid Polyurethane

Key Features

Stiff • Moderate resistance to heat • High strength

Description

This is a stiff material with high strength. It has moderate resistance to heat with heat deflection temperature of 60°C. It provides excellent surface finish. It is frequently used as a construction/manufacturing material due to its durability and resistance to weathering. RPU 70 can be produced in a variety of colors and densities, making it a versatile material for a variety of applications. It is also resistant to most chemicals, oils, and greases, making it an ideal material for many industrial applications.

Mechanical Properties

Tensile modulus	1700 MPa
Tensile strength	40 MPa
Elongation at break	30%
Flexural strength	55 MPa
Flexural modulus	1.5 GPa
Hardness (Shore D)	80

Thermal Properties

Heat deflection temperature (1.80 MPa)	45°C
Heat deflection temperature (0.45 MPa)	60°C

Physical Properties

Density	1.08 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.