

Data Sheet: FPU 50

(Flexible Polyurethane)

Details

This resin is robust and semi-rigid. It is suitable for applications that require toughness to withstand repetitive loading. It has a tensile strength of 29MPa with heat deflection of 78°C.

Key Features

Semi rigid, robust • Resistant to impact.

Thermal Properties

Property	Value
Heat deflection [°C]	78
Thermal conductivity [W/m · K]	0.138
Specific heat capacity [J/kg · K]	1480

Mechanical Properties

Property	Value
Tensile strength [MPa]	29
Modulus of elasticity [GPa]	0.86
Flexural strength [MPa]	32
Flexural modulus [GPa]	0.83
Impact strength [J/m]	40
Elongation at break [%]	280

Physical Properties

Property	Value
Density [g/cm ³]	1.053
Water Absorption [%]	0.42
Electrical Resistivity [ohm-cm]	1.87×10^{13}

Reference

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