

PRIMARY MFG

FPU 50 DLS

Picture
Coming Soon

FPU 50 is an impact, abrasion, and fatigue resistant semi-rigid material that is a good choice for parts that must withstand repetitive stresses, such as living hinges or friction fits.

Tensile Properties, ASTM D638, Type I

	Metric	US.
Tensile Modulus	700 MPa	100 KSI
Ultimate Tensile Strength	25 MPa	4 KSI
Strain at Yield	7%	7%
Elongation at Break		200%

Flexural Properties, ASTM D790-B

Flexural Stress at 5% strain	30 MPa	4 KSI
Flexural Modulus (Chord, 0.5-1%)	800 MPa	120 KSI

Impact Properties

Notched Izod (Machined Notch), 23 °C, ASTM D256	40 J/m	0.7 Ft-lbs/in
Notched Charpy (Machined Notch), ISO 179-1/1eA	2.5 kJ/m ²	1.2 ft-lb/in ²

Thermal Properties

Heat Deflection Temperature at 0.455 MPa/66 psi, ASTM D648	70 °C	155 °F
Coefficient of Thermal Expansion, ASTM E831	130 ppm/°C	70 ppm/°F

General Properties

Density, ASTM D792	1.05 g/cm ³	0.036 lb/in ³
Hardness, ASTM D2240		71, Shore D
Water absorption, 23°C, 24 hours, ASTM D570		< 1%