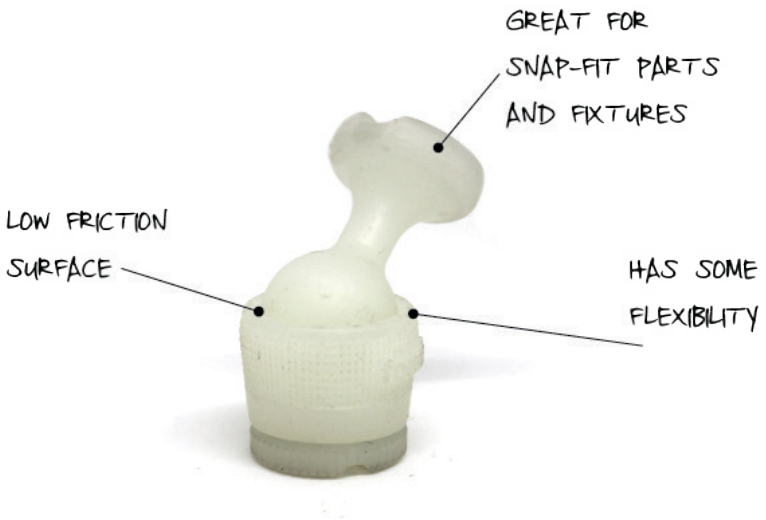
Technical Data Sheet

DURABLE RESIN

Makelab



Description

Durable Resin is a high precision engineering material with a low modulus, high elongation, and high impact strength. One of our most versatile materials, parts are produced with a beautiful and professional surface finish with a high resistance to deformation.

Uses

Snap fits
Consumer packaging
Living hinges

Colors

Material Properties

Elongation

Hardness

Tensile Strength

Durability

	Metric	Imperial
Tensile Properties		
Ultimate Tensile Strength	31.8 MPa	4.61 ksi
Tensile Modulus	1.26 GPa	183 ksi
Elongation	49 %	49 %
Flexural Properties		
Flexural Stress at 5% Strain	27 MPa	3.95 ksi
Flexural Modulus	0.82 GPa	119 ksi
Impact Properties		
Notched IZOD	109 J/m	2.05 ft-lbf/in
Temperature Properties		
Heat Deflection Temp @ 264 psi	43.3 °C	110 °F
Thermal Expansion (23 °C to 50 °C)	145.1 µm/m/°C	80.6 µin/in/°F

**Data was obtained from Formlabs technical data sheets at formlabs.com