

Formlabs Flexible 80A

Key Features

Flexibility • Stiffness • Good shock absorption

Applications

Prototyping • End-use parts • Engineering • Medicine, dentistry • Consumer goods

Product Description

Flexible 80A resin stands out as a very stiff soft-touch material, featuring an 80A Shore durometer to mimic rubber or TPU flexibility. Combining softness with strength, this translucent material withstands bending, flexing, and compression with great elongation at break (120%), making it ideal for cushioning, damping, and shock absorption applications.

Properties*

| | |
|--------------------------------------|------------------|
| Tensile strength | 8.9 MPa |
| Stress at elongation (50, 100%) | 3.1, 6.3 MPa |
| Elongation at break | 120% |
| Tear Strength (Die C) | 24 kN/m |
| Compression set (23 °C for 22 hours) | 3% |
| Ross flex fatigue at 23 °C | > 200,000 cycles |
| Glass transition temperature (Tg) | 27°C |
| Hardness | 80A |

*Post-cured state

Reference

For more detailed source information, please consult the original document linked [here](#). We encourage users to verify the data's relevance and suitability for their specific needs.

