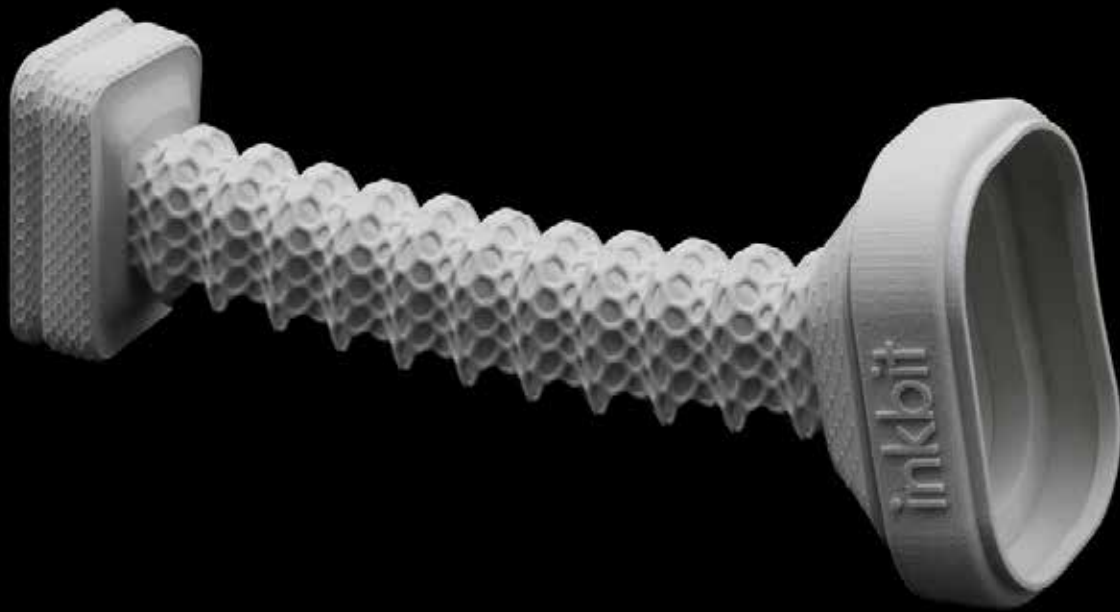


inkbit



TEPU™ 50A

A medium softness elastomer with excellent compression strength, UV stability and chemical resistance.

Mechanical Properties

Method	Value
Ultimate Tensile Strength	ASTM D412 1.79 MPa
Elongation at Break	ASTM D412 128%
Elastic Modulus	ASTM D412 2.48 MPa
Shore Hardness	ASTM 2240 50 A
Tear Propagation	ASTM D624 7.50 kN/m
Tear Strength	ASTM D624 5.02 kN/m
Compression Set, 23°C, 72 h	ASTM D395-B 7.73%
Compression Set, 70°C, 24 h	ASTM D395-B 19.74%
Compression Set, 70°C, 72 h	ASTM D395-B 34.03%
Compression Set, 125°C, 24 h	ASTM D395-B 64.37%

Thermal Properties

Method	Value
Glass Transition Temperature, T _g (DMA, Tan δ)	ASTM D4065 -21°C (-5.8 °F)
Glass Transition Temperature, T _g (DSC)	ASTM D3418 -28°C (-18.4 °F)

Chemical Compatibility

Percent weight gained after five days submersion at 25°C, following ASTM D543.

Solvent	Weight Gain
Engine Oil	0.3%
Water	< 4%
Isopropanol	21%
Ethanol	26%
Hexane	0.4%
Ethylene Glycol	2%
Mineral Oil	0.6%
Windex	< 8%
Coke (original)	< 3%

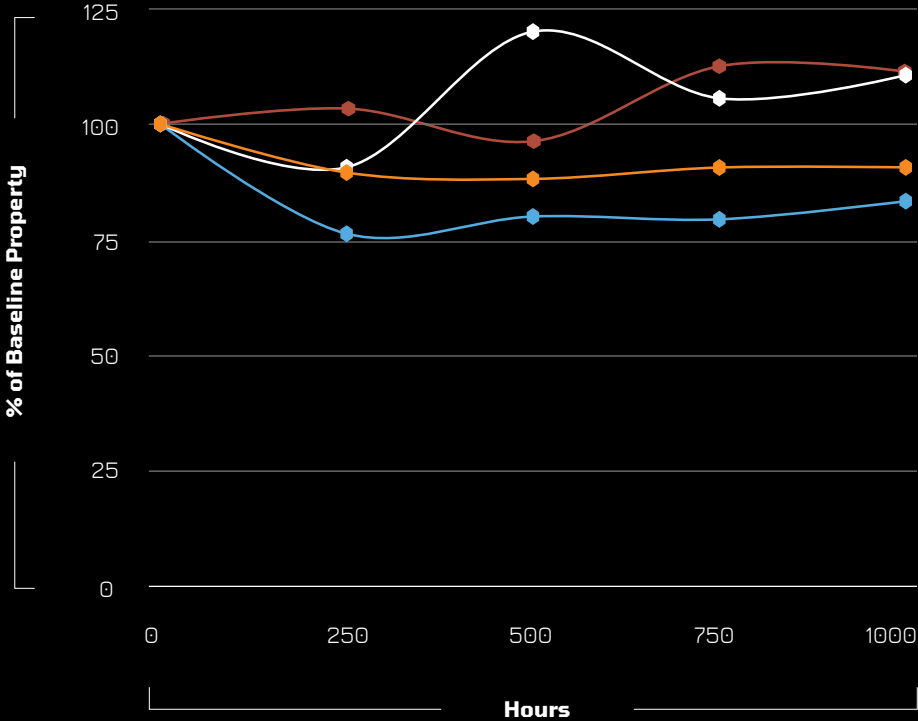
Updated: 11.11.2025

To the best of our knowledge the information contained herein is accurate. However, Inkbit Corporation makes no warranty, expressed or implied, regarding the accuracy of these results to be obtained from the use thereof.

TEPU™ 50A

UV Aging Over 1,000 Hours
(Using ASTM G154)

- MODULUS
- ELONGATION AT BREAK
- ULTIMATE TENSILE STRENGTH
- TEAR STRENGTH



UV Aging	Standard	250 Hours	500 Hours	750 Hours	1,000 Hours
Elongation at Break	ASTM G154	10.5%	11.8%	9.4%	9.4%

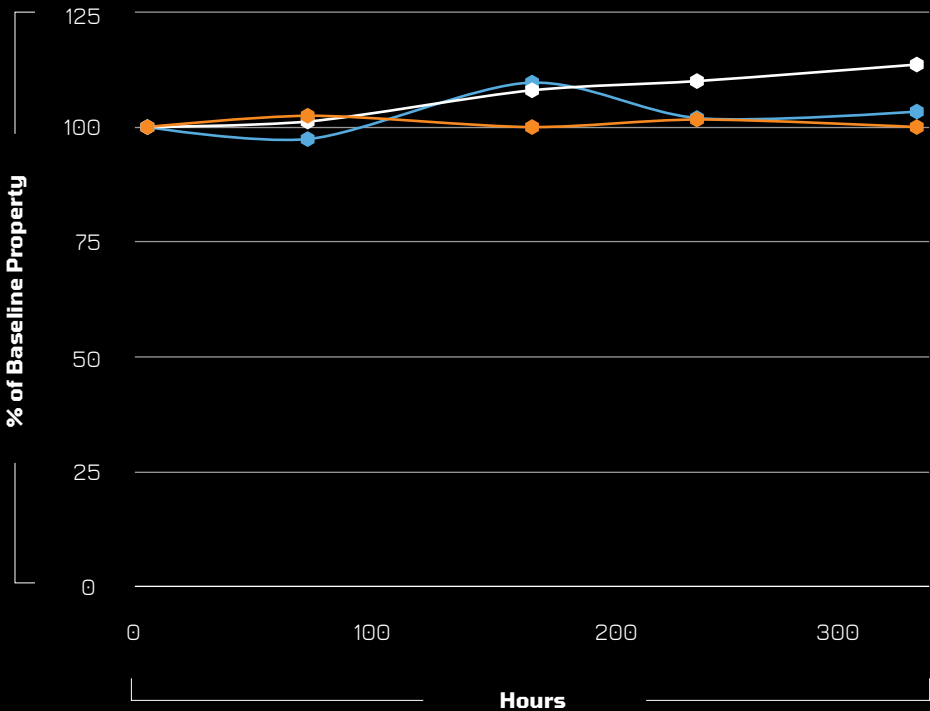
Updated: 11.11.2025

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TEPU™ 50A

Heat Aging at 100°C
(Using ASTM G154)

- MODULUS
- ELONGATION AT BREAK
- ULTIMATE TENSILE STRENGTH



Heat Aging at 100°C	Standard	70 Hour Change	168 Hour Change
Shore Hardness A	ASTM 2240	0.8%	1%
Heat Aging at 125°C	Standard	24 Hour Change	70 Hour Change
Shore Hardness A	ASTM 2240	6%	8%

Updated: 11.11.2025

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