



forward**am**.

MATERIAL DATA SHEET
P3™ DLP

P3™ Stretch™ 80

An easy-to-use general-purpose elastomer for flexible prototypes and end-use parts. Excellent replacement for traditional polyurethane or TPU.





Producing flexible prototypes just became easier with this general-purpose elastomer. This newest addition to the Origin[®] elastomers materials comes at an affordable price point, making it an interesting entry-level material for users starting elastomer printing. Less viscous than typical elastomers, P3 Stretch 80 – developed by Forward AM - processes easily and fast on Origin[®], is simple to clean and UV post-cure. The material makes an excellent replacement for traditional polyurethane or TPU.

Key Features

- Excellent rebound
- Higher durometer allows for faster printing.
- Outstanding surface finish – ideal for elastomeric parts where aesthetics, grip, and interaction with Class A surfaces is essential.
- Good mechanical properties and chemical resistance
- Simple cleaning and UV post-curing process
- Black color

Industries & Applications

- Aerospace
- Automotive
- Industrial
- Prototyping
- Jigs & fixtures
- Seals & Gaskets
- Fit & form testing for consumer products, including footwear, watch bands, accessories.

Liquid Properties

Property	Value
Appearance	Matte Black
Viscosity (25°C)	500 MPa s

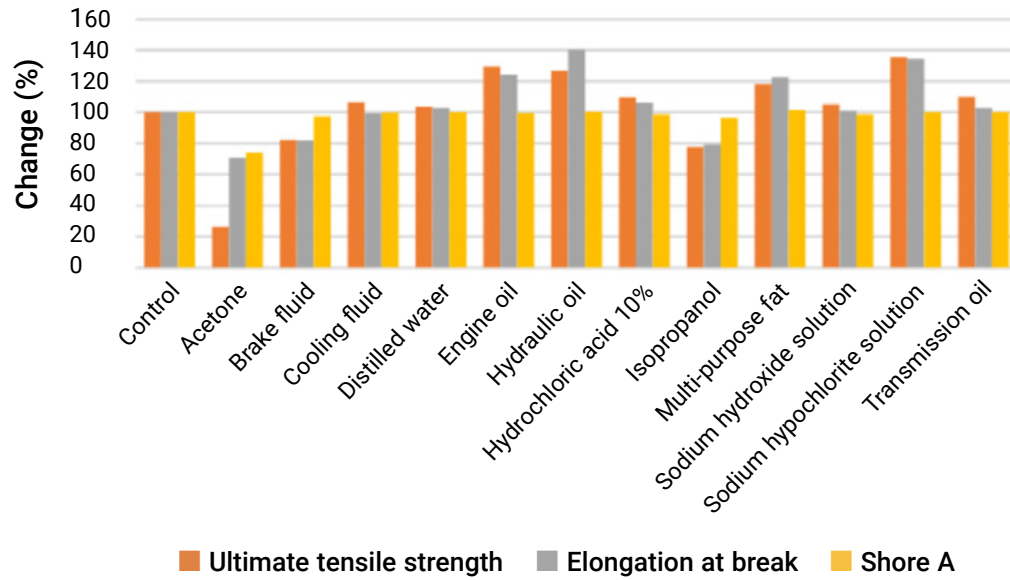
Mechanical Properties

Property	Unit	Standard	Average - Standard Deviation
Young's Modulus	MPa	ASTM D412	54 ± 4.5
Tensile Strength	MPa	ASTM D412 type C	11 ± 2.4
Elongation at Break	%	ASTM D412 type C	117 ± 17.4
Tensile Tear Resistance	N/mm	ASTM D624 C	19 ± 0.7
Shore A Hardness, 3 sec			87 ± 1.2
Rebound resilience	%	ASTM D7121	26
Abrasion resistance	mm ³	ISO4649	254
Water absorption (% , 1 day, 3 day)	%	ASTM D570	21

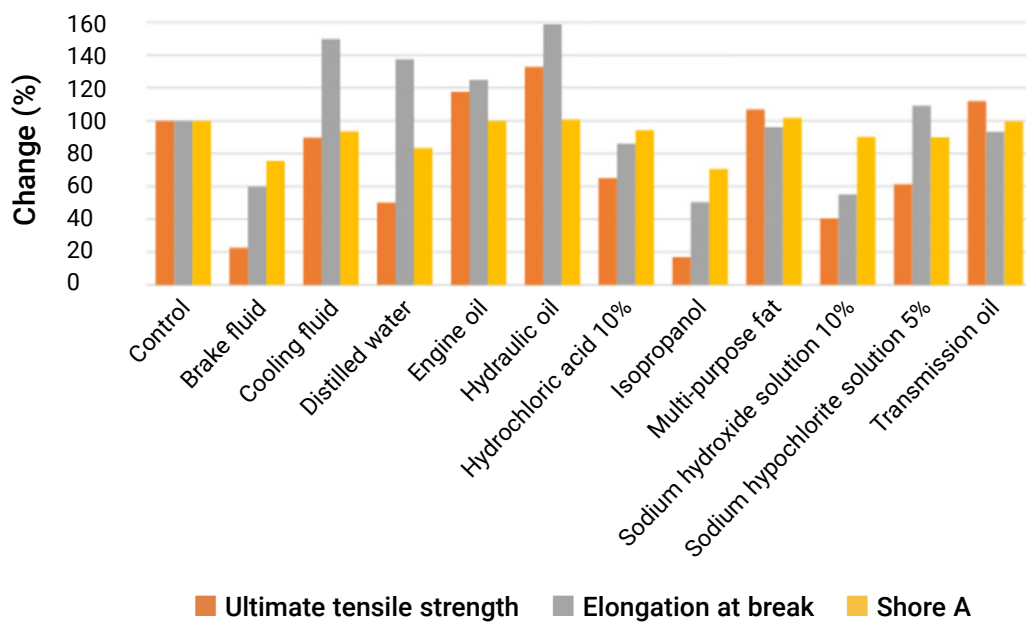


Chemical Resistance

Mechanical properties after 30 minutes

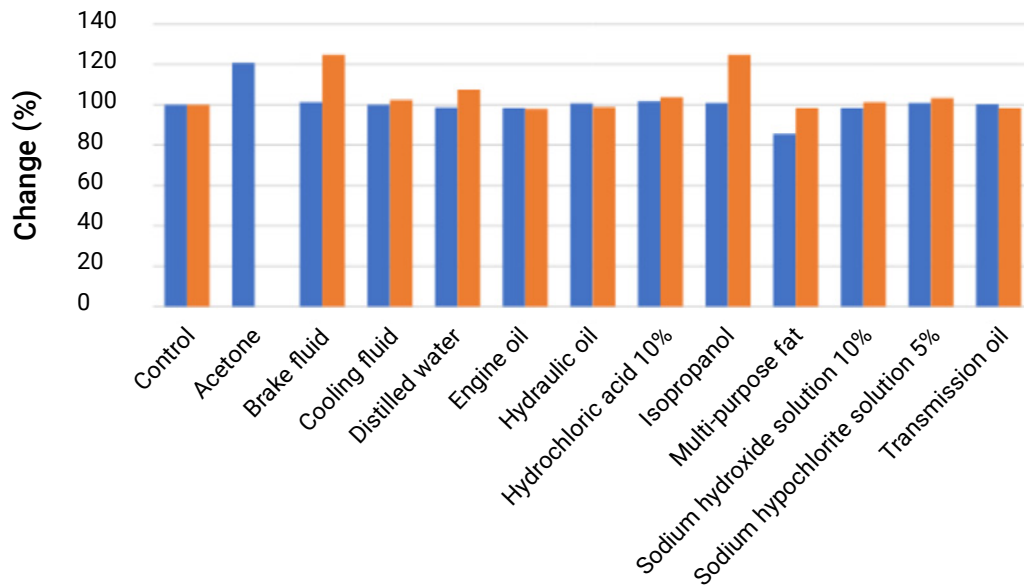


Mechanical properties after 7 days





Total weight change



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