

P3™ MED Silicone 25A

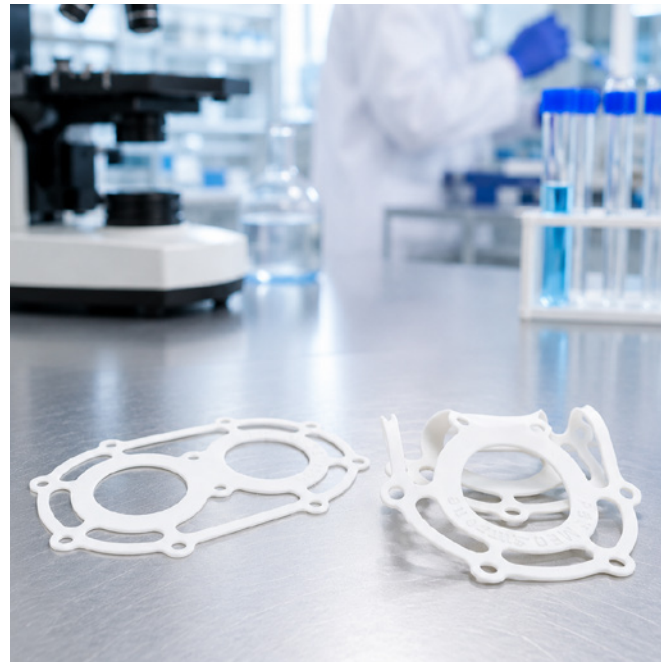
by Shin-Etsu

Flexible precision parts for skin-contact applications. Real additive silicone with properties similar to molding silicones.

P3™ MED Silicone 25A is a soft, highly elastic silicone material with ISO 10993 biocompatibility certification. The white material, developed exclusively for Origin by Shin-Etsu, enables accurate, repeatable production of components for comfortable, flexible and reliable patient skin contact.

Printed on the Origin P3™ DLP system, it can produce thin walls, complex designs and internal features with consistent mechanical performance, making it ideal for bridging the gap between prototyping and low-to-mid volume manufacturing without tooling.

The material is biocompatible after the normal postprocess, not requiring additional steps or use of specific solvents.



Key Features

- Soft material with high tear resistance
- Excellent strength and rebound
- High elasticity and tear resistance, low compression set
- Biocompatibility ISO 10993-5, -10, -23 without the need for additional treatment
- Gives fine features with excellent surface finish
- Single-component UV resin; no mixing required
- Low curing shrinkage (<1%)
- No odor, low tackiness
- White

Industries & Applications

- Medical devices for patient contact, like hearing and audiology devices, bolus, respiratory, orthotics & prosthetics,
- Anatomical models
- Medical device prototyping
- Consumer applications like wearables, smartwatch bands, earphones
- Molds
- Small-batch production
- Seals and gaskets for medical and consumer electronics equipment



Liquid Properties

Property	Value
Appearance	White
Viscosity (23 °C)	13,000 mP·s
Density	1.3 g/cm ³

Mechanical Properties

Property	Method	Value
Tear Resistance	ASTM D638	14.8 kN/m
Ultimate Tensile Strength	ASTM D638	4.4 MPa
Tensile Elongation at Break	ASTM D638	835%
Shore A	ASTM D790	23
Ross Flex-Test	ASTM D1052 –09 (Reapproved 2019)	>100,000
Compression Set	ISO 815-1/ASTM D395 Type b 72 hours at 23°C (73°F)	7%

Chemical Properties

Property	Method	Value
Biocompatibility - Cytotoxicity	ISO 10993-5 / USP <87> *Steam-sterilized test article	Passed*
Biocompatibility - Sensitization	ISO 10993-10 *Steam-sterilized test article	Passed*
Biocompatibility - Irritation / Intracutaneous reactivity	ISO 10993-23 *Steam-sterilized test article	Passed*
Solid Density (Cured)	ASTM D792	1.3 g/cm ³
Water Absorption (24 hours)	ASTM D570	1.5%

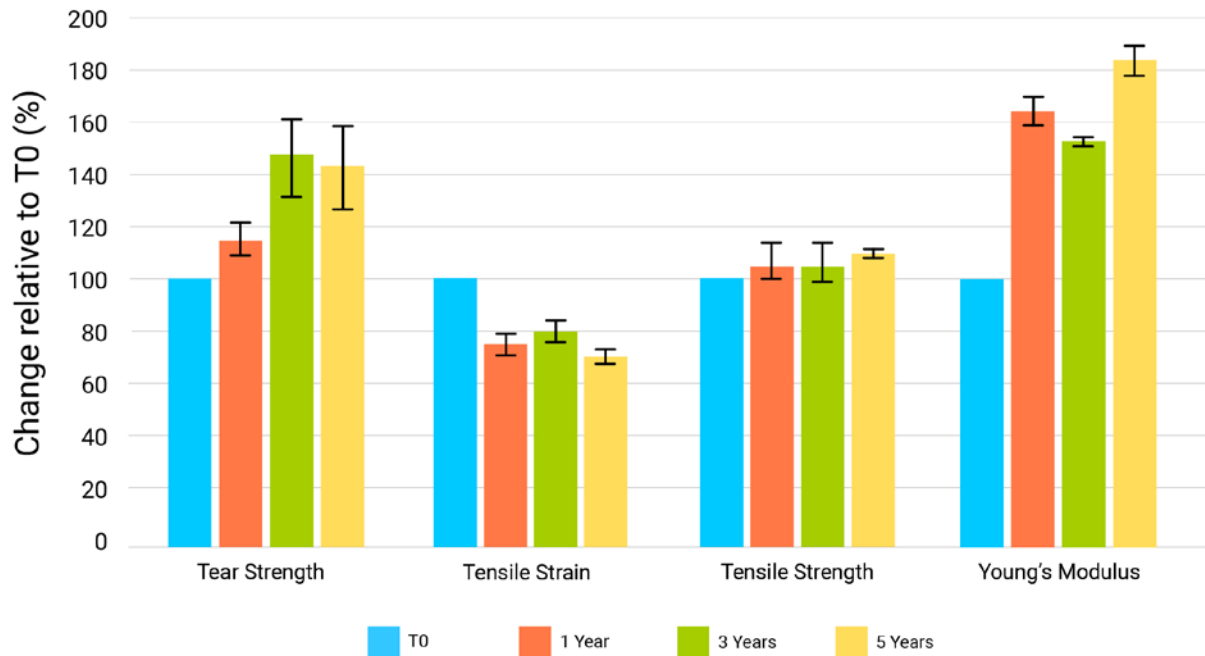
* According to the supplier procedure



Thermal Properties

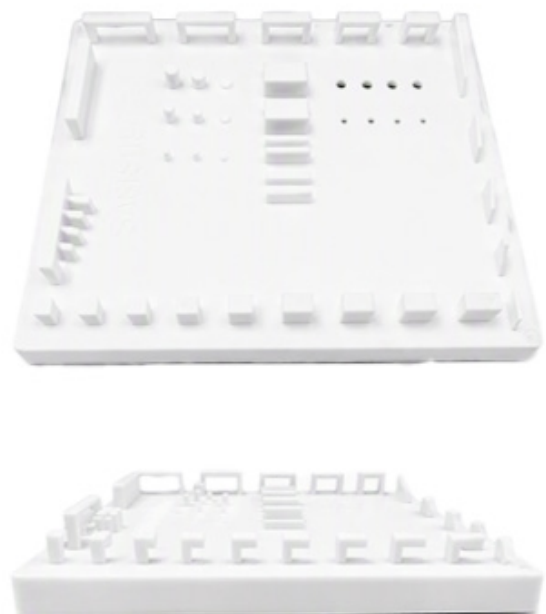
Accelerated Aging Test at 80 °C

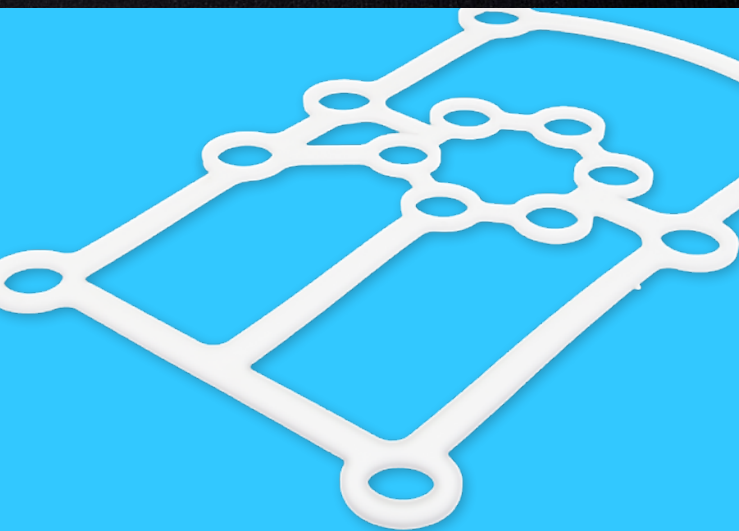
Mechanical Properties Vs. Aging Times



Feature Capabilities

Evaluated Feature	Value
Color	White
Maximum unsupported overhang length	3 mm
Maximum span length	7 mm
Minimum unsupported overhang angle	15°
Minimum vertical wire diameter	
1 mm height	0.5 mm
3 mm height	1 mm
5 mm height	1 mm
Minimum unsupported wall thickness	
5 mm height	1 mm
10 mm height	1 mm
Minimum hole diameter in Z	2 mm
Minimum hole diameter in XY	2 mm





stratasys

[stratasys.com](https://www.stratasys.com)

ISO 9001:2015

Certified

Stratasys Headquarters

5995 Opus Parkway,
Minnetonka, MN 55343
+1 800 801 6491 (US Toll Free)
+1 952 937-3000 (Intl)
+1 952 937-0070 (Fax)

1 Holtzman St.

Science Park
Rehovot, 7670401
Israel
+972 74 745 4000
+972 74 745 5000 (Fax)

MATERIAL DATA SHEET

P3™ DLP

© 2026 Stratasys. All rights reserved. Stratasys, the Stratasys Signet logo, Origin, and P3 are (registered) trademarks of Stratasys Inc. All other trademarks are the property of their respective owners, and Stratasys assumes no responsibility with regard to the selection, performance, or use of these non-Stratasys products. Product specifications are subject to change without notice.
MDS_P3_MEDSilicone25A_0726a