

Preliminary

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 certification (ISO 10993-5, -10, -23. Passed Cytotoxicity; Pending Irritation & Sensitization) 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



Liquid Properties

[Testing in progress]

Chemical 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

Mechanical Properties

Property	Method	Value
Cytotoxicity	ISO 10993-5	Passed*

* According to the supplier procedure

Thermal Properties

[Testing in progress]



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