

SIL 30 Overview



SIL 30 is a soft, biocompatible, and tear-resistant silicone urethane elastomer that is ideal for comfortable skin-contact applications.

MATERIAL PROPERTIES Ref TDS for more info.

Ultimate Tensile Strength	3.2 Mpa
Elongation at Break	> 330 %
Tear Strength	9.6 kN/m
Compression Set	11 %
Bayshore Rebound Resilience	20 %
Tg	8°C
Shore Hardness	35, Shore A
Density	1.07 g/cm ³

STORAGE Supplemental information available.

Temperature	17 - 25°C (64 - 77 °F)
Packaging	375 ml cartridge

Notes

--

RESIN DISPENSING & PRINTING

Supplemental information available.

Ratio	1:1	Burn off	10 ml every dispense	Notes • * Speed 2 on Albion, speed 1 on Cox.
Speed	1 or 2*	MMD	No	
Mixing tip	White	Pot life	12 hours	
		Release film	Recommended	

WASHING

Supplemental information available.

Solvent	99% Isopropanol	Manual Process <ul style="list-style-type: none"> Remove excess resin by letting parts drain from features for 30 minutes, if necessary. 5 min orbital shaker at 80-100 RPM. Air dry parts until all solvent has evaporated. <i>This step is critical for material properties.</i> Remove parts from platform carefully. <i>Washing on platform is recommended.</i> Spot clean platform contacting surfaces with IPA dampened swabs (or wipes).
Exposure	5 min max	
Part Washer	Yes Vertrel™ solvent blend	
Notes <ul style="list-style-type: none"> Gentle cycle recommended in the Part Washer. Spinner not recommended. Handle parts carefully; green state SIL 30 is fragile. 		

CURING

Supplemental information available.

Cure start	w/in 16 hrs of printing	UV	N/A	Compatible baking implements <ul style="list-style-type: none"> Non-stick aluminum foil Pan mesh
Salt bake	No	Thermal	<ul style="list-style-type: none"> Program 3 - Pattern 2 8 hours at 120°C 	