

# FASTELTACK SIL

Silicone Pressure Sensitive Adhesive

## Product Data Sheet

P/N: SIL1 (0.001", 0.025mm) Unsupported

P/N: SIL2 (0.002", 0.051mm), Unsupported

P/N: DC111 (0.003", 0.076mm), Supported

### FastelTack SIL Product Description

FastelTack Silicone was designed for applications requiring excellent bond strength, chemical resistance as well as resistance to extreme temperatures (-300°F to 500°F). FastelTack SIL is available in either an unsupported or supported film construction. SIL1 and SIL2 are unsupported silicone pressure sensitive adhesives and standard with clear polyester release film both sides. DC-111 is constructed with a 1 mil PET substrate coated with 1 mil of silicone pressure sensitive adhesive both sides and protected with clear polyester release liner (both sides).

#### Product Features

High performance adhesion  
Chemical resistant | UV Resistant  
High | low temperature resistant  
Die cuts | rolls / substrate laminations

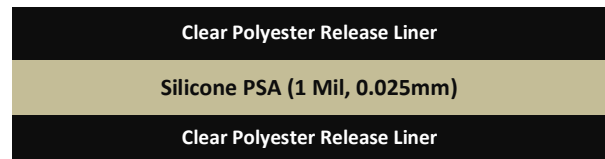
#### Typical Surfaces

Metals  
Silicone films, pads and foams  
Plastics | Polyimides  
Low energy surfaces

### SIL 1 Product Characteristics / Formats

**Adhesive Type:** High temp silicone  
**Adhesive Thickness:** 1 Mil (0.001", 0.025mm)  
**Delivery Formats** Continuous Rolls or Die Cuts  
**Release Liner:** Clear Polyesters (both sides)  
**Release Liner:** Release coated polyester film (both sides)(clear)  
**Substrate Pre-Lamination:** Yes, contact Fastel to learn more about substrate lamination options  
**Fastel Die Cuts:** Individual die cut pieces  
Continuous die cut rolls

### SIL 1 Material Construction



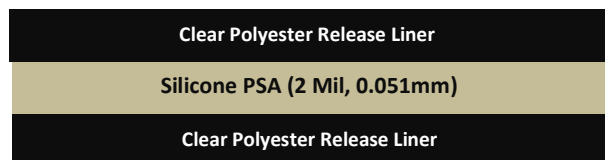
### SIL 1 Performance Characteristics

180° Peel Adhesion (20min dwell): 24oz/inch  
Operating Temperature: -300°F to 500°F (-185°C to 260°C)

### SIL 2 Product Characteristics / Formats

**Adhesive Type:** High temp silicone  
**Adhesive Thickness:** 2 Mil (0.002", 0.051mm)  
**Delivery Formats** Continuous Rolls or Die Cuts  
**Release Liner:** Clear Polyesters (both sides)  
**Release Liner:** Release coated polyester film (both sides)(clear)  
**Substrate Pre-Lamination:** Yes, contact Fastel to learn more about substrate lamination options  
**Fastel Die Cuts:** Individual die cut pieces  
Continuous die cut rolls

### SIL 2 Material Construction



### SIL 2 Performance Characteristics

180° Peel Adhesion (20min dwell): 55oz/inch  
Operating Temperature: -300°F to 500°F (-185°C to 260°C)

The information contained herein is to the best of our knowledge and belief to be accurate. Physical properties shown above are typical values and are not intended for use in writing specifications. However, since the conditions of handling and of use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by following these suggestions. Nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.

# FASTELTACK SIL

Silicone Pressure Sensitive Adhesive

## DC-111 Product Characteristics / Formats

<b>Substrate Type</b>	Clear PET
<b>Substrate Thickness</b>	1 Mil (0.001", 0.025mm)
<b>Adhesive Type:</b>	High temp silicone
<b>Adhesive Thickness:</b>	1 Mil (0.001", 0.025mm)
<b>Substrate Coating:</b>	Double coated
<b>Delivery Formats:</b>	Continuous Rolls or Die Cuts
<b>Release Liner:</b>	Release coated polyester film (both sides)(clear)
<b>Release Liner Thickness:</b>	2 Mil (0.002", 0.05mm)

## DC-111 Material Construction

Clear Polyester Release Liner
Silicone PSA (1 Mil, 0.025mm)
PET Substrate (1 Mil, 0.025mm)
Silicone PSA (1 Mil, 0.025mm)
Clear Polyester Release Liner

## DC-111 Performance Characteristics

<b>180 Peel PET/s.s:</b>	24 oz/inch
<b>Shear properties (500g/0.25in<sup>2</sup>):</b>	PET/s.s. : > 167 hours
<b>Shear adhesive failure temp (S.A.F.T):</b> (1" x 1" x 1000g-PET/s.s.)	>500°F (266°C) polyester failure
<b>Continuous temperature resistance:</b>	-300°F to 500°F (-185°C to 260°C)
<b>Dielectric Strength:</b>	4 – 5 kv

## Fasteltack SIL1, SIL2, DC-111 Die Cutting Tolerances

<b>Steel Rule Die Dimensional Tolerances:</b>	+/- 0.005"
<b>Rotary Die Dimensional Tolerances:</b>	+/- 0.010"

## Bonding Information

For maximum bonding performance, make sure all substrates are clean, dry and free from grease and oils. The firmer and more consistent the pressure during application as well as the greater the contact area will result in a stronger bond. FastelTack SIL bond strength will increase over time as the adhesive continues to wet out the substrate surfaces. Please note adhesion significant adhesion can be achieved quickly to most substrates by applying heat at 200°F (93°C) as well as pressure.

## Samples or More Information

For more information or to receive samples for testing, please contact us toll free at 1-888-989-3832 (US Only) +1-949-369-7676 (international) or e-mail [info@stretch.com](mailto:info@stretch.com)

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FASTEL ADHESIVES | TIMTEL THERMAL MANAGEMENT

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