

# SNAPSIL\* TN3305

## silicone adhesive sealant

ENGINEERED MATERIALS



SnapSil TN3305 silicone adhesive sealant is a one-component, low volatile siloxane that cures at room temperature upon exposure to atmospheric moisture, and exhibits primerless adhesion to many substrates.

### Key Features and Typical Benefits

- Fast tack-free time
- Low volatility
- Non-corrosive to most metals
- Primerless adhesion to many substrates

Typical Physical Properties		(JIS K 6249)
<b>Uncured Properties</b>		
Appearance		Flowable, clear, white, black
Viscosity (23 °C)	Pa·s	47
Tack-free Time (23 °C)	min	9
<b>Cured Properties (3 days @ 23 °C, 50%RH)</b>		
Appearance		Elastic rubber, clear, white, black
Density (23 °C)	g/cm <sup>3</sup>	1.04
Hardness (Type A)		14
Tensile Strength	MPa	1.5
Elongation	%	400
Adhesion Strength <sup>(1)</sup>	MPa	1.0
Volatile Siloxane <sup>(2)</sup> (D <sub>3</sub> -D <sub>10</sub> )	wt%	0.01
Volume Resistivity	Ω·cm	2.0x10 <sup>15</sup>
Dielectric Strength	kV/mm	26
Dielectric Constant (60Hz)		2.7
Dissipation Factor (60Hz)		0.002
Impurities <sup>(2)</sup> ppm	Na <sup>+</sup>	<2
	K <sup>+</sup>	<2
	Cl <sup>-</sup>	<2

(1) Glass lap shear, 7 days @ 23 °C, 50%RH

(2) In-house test method

Typical properties are average data and are not to be used as or to develop specifications.

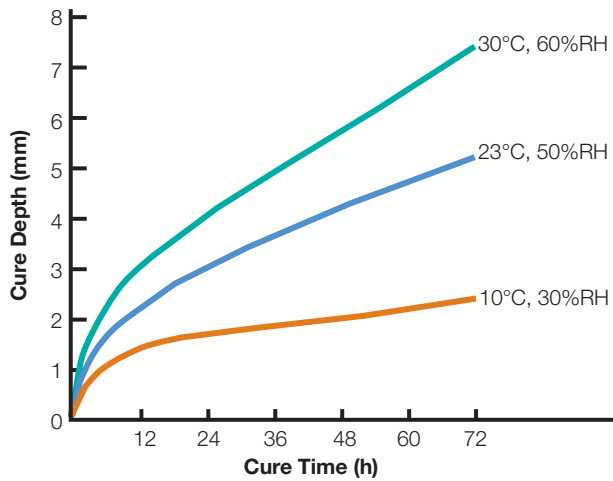
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## Potential Applications

- Insulating adhesive seal and fixing for electrical and electronic parts
- Waterproof sealant for electrical, electronic and communication equipment
- General adhesive for metal, glass, plastics, etc.

## Cure Profile

SnapSil TN3305 silicone adhesive sealant cures upon exposure to atmospheric moisture, and its cure speed is affected by humidity and temperature. The material begins to cure from the sections that are exposed to the atmosphere and, therefore, greater time is required for the cure to extend to deeper sections. The cure depth of SnapSil TN3305 silicone adhesive sealant at various combinations of humidity and temperature are provided below.



## Adhesion Performance

SnapSil TN3305 silicone adhesive sealant adheres to a wide variety of substrates used in electronic components. The following matrix depicts adhesion performance to typical substrates. However, actual performance may vary depending on the substrate manufacturer or grade.

Substrate	
Aluminum	O
Copper	O
Steel	O
Stainless Steel	O
Acrylic resin	O
Phenolic resin	O
Epoxy resin	O
PET	O
ABS	O
PBT	O
PPS	O
PVC	O
Nylon	O
Polycarbonate	O
PPO	O
Polyethylene	X
Polytetrafluoroethylene	X
Glass	O

O: Good (cohesive failure)  
X: Adhesive failure

## Packaging

- 100g tube
- 333ml cartridge
- 18kg pail

## **SNAPSIL\* TN3305 silicone adhesive sealant**

### **Patent Status**

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### **Limitations**

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

## Customer Service Centers

### Email

4information@momentive.com

### Telephone

#### Americas

+1 800 295 2392

+1 614 986 2495

#### Europe, Middle East, Africa and India

+00 800 4321 1000

+40 212 534754

#### Asia Pacific

##### China

+800 820 0202

##### Japan

+81 276 20 6182

##### All Other Countries

+60 3 9206 1543

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260 Hudson River Road  
Waterford, NY 12188 USA  
momentive.com