

SNAPSIL* TN3705

silicone adhesive sealant

ENGINEERED MATERIALS



SnapSil TN3705 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
- Low odor cure: releases an alcohol vapor during cure

Typical Physical Properties

(JIS K 6249)

Uncured Properties		
Appearance		Flowable, clear, white, black
Viscosity (23 °C)	Pa·s	1.5
Tack-free Time (23 °C)	min	7
Cured Properties (3 days @ 23 °C, 50%RH)		
Appearance		Elastic rubber, clear, white, black
Density (23 °C)	g/cm ³	1.01
Hardness (Type A)		13
Tensile Strength	MPa	0.4
Elongation	%	130
Adhesion Strength ⁽¹⁾	MPa	0.2
Volatile Siloxane ⁽²⁾ (D ₃ -D ₁₀)	wt%	0.01
Volume Resistivity	Ω·cm	2.0x10 ¹⁵
Dielectric Strength	kV/mm	26
Dielectric Constant (60Hz)		2.7
Dissipation Factor (60Hz)		0.002
Impurities ⁽²⁾ ppm	Na ⁺	<2
	K ⁺	<2
	Cl ⁻	<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.

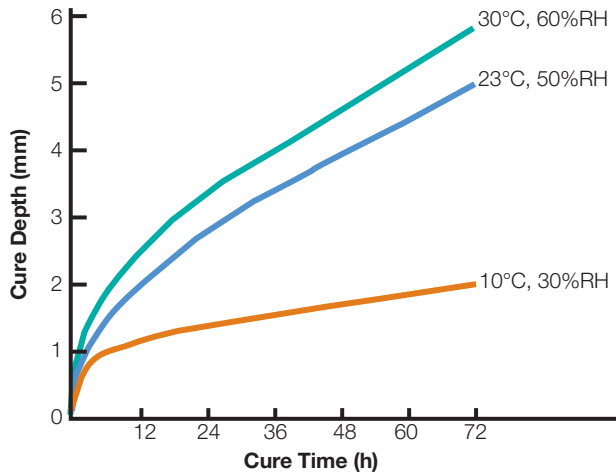
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Potential Applications

- 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 TN3705 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 typical cure depth of SnapSil TN3705 silicone adhesive sealant at various combinations of humidity and temperature are provided below.



Adhesion Performance

SnapSil TN3705 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

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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.

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