

SnapSil* TN3085

Description

SnapSil TN3085 is a one-component, thermally conductive, low volatile siloxane, silicone adhesive that cures at room temperature upon exposure to atmospheric moisture. It cures to form an elastic, flame retardant silicone rubber and exhibits primerless adhesion to many substrates.

Key Features and 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
- Thermally conductive
- Flame retardant (UL94 V-0, File No. E56745)



Typical Physical Properties 6249)

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Property	Unit	Value
Uncured Properties		
Appearance		Non-flowable paste,gray,white
Tack-free Time (23 °C) min		7
Cured Properties (3 days at 23 °C, 50% RH)		
Appearance		Gray, white rubber
Density (23 °C)	g/cm ³	1.63
Hardness (Type A)		46
Tensile Strength	MPa	2.3
Elongation	%	150
Adhesion Strength ⁽¹⁾	MPa	1.3
Volatile Siloxane ⁽²⁾ (D ₄ -D ₁₀)	wt%	0.01
Thermal Conductivity ⁽³⁾	W/m·K	0.7
Volume Resistivity	Ω·cm	4.0x10 ¹⁴
Dielectric Strength	kV/mm	23
Dielectric Constant (60Hz)		4.0

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

⁽¹⁾ Aluminum Lap Shear

⁽²⁾ In-house test method

⁽³⁾ Hot wire method

Typical Properties, continued

Property	Unit	Value
Dissipation Factor (60Hz)		0.04
Impurities ⁽²⁾ ppm	Na+	< 2
	K+	< 2
	Cl-	< 2

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

⁽¹⁾ Aluminum Lap Shear

⁽²⁾In-house test method

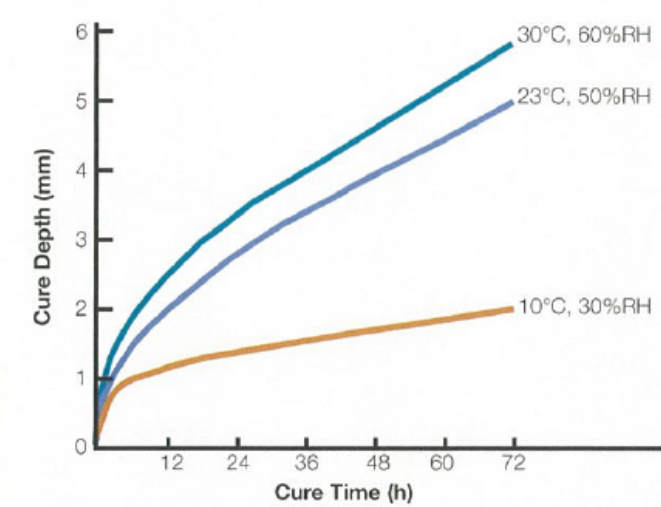
⁽³⁾Hot wire method

Potential Applications

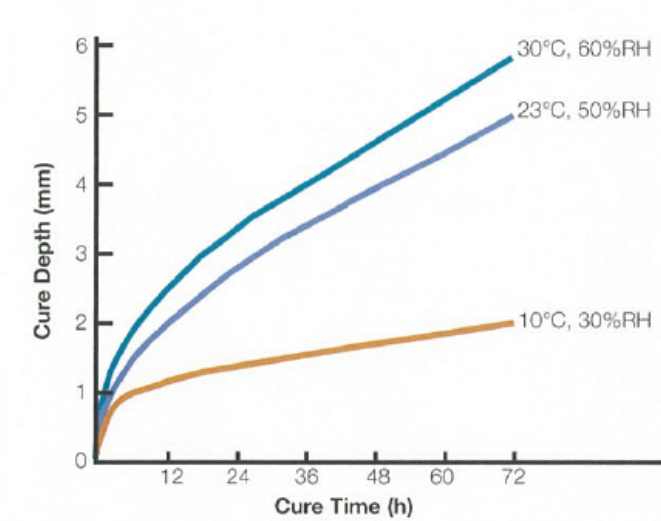
- Bonding in power supplies
- Thermal adhesive between electronic components and heat sinks
- Securing PCBs to substrates

Cure Profile

SnapSil TN3085 silicone adhesive 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 TN3085 silicone adhesive at various combinations of humidity and temperature are provided below.



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Note: Test results. Actual data may vary.



Adhesion Performance

SnapSil TN3085 silicone adhesive 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
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

Note: Test results. Actual data may vary.

O: Good (cohesive failure)

X: Adhesive failure

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.



Limitations

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

Contact Information

For product prices, availability, or order placement, contact our customer service at Momentive.com/CustomerService/

For literature and technical assistance, visit our website at: www.momentive.com

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