

SnapSil™ TN8000

Fast Cure, Non-corrosive Silicone Adhesive Sealant

Product Description

SnapSil TN8000 silicone adhesive sealant is a one-component, fast cure, non-corrosive silicone adhesive sealant that cures on exposure to atmospheric moisture to form an elastic silicone rubber. SnapSil TN8000 silicone adhesive sealant has a thixotropic paste consistency and excellent corrosion-free adhesion to metals, including copper, plastics, glass without the use of primers.

Key Features and Typical Benefits

- Fast room temperature cure; neutral alkoxy cure type
- Primer less adhesion to many substrates
- Excellent adhesion after extended aging, with excellent dielectric properties
- Flame retardant: UL94HB certified (File No. E56745)
- Wide operating temperature range from -50 to +200 °C

Typical Physical Properties

(JIS K 6249)

UNCURED PROPERTIES (23°C, 50%RH)		SnapSil TN8000-W, -B, -G sealant
Appearance		Non-flowable, white, black, gray
Tack Free Time	Min	20
CURED PROPERTIES (7days at 23 °C, 50%RH)		
Appearance		Elastic rubber, white, black, gray
Density	g/cm ³	1.41
Hardness (Type A)		33
Tensile Strength	MPa	2.2
Elongation	%	620

Adhesive Strength ⁽¹⁾	MPa	1.8
Thermal Conductivity ⁽²⁾	W/(m·K)	0.38
Linear Expansion ⁽³⁾	1/K	2×10^{-4}
Volume Resistivity	MΩ·m	7×10^6
Dielectric Strength	kV/mm	21
Dielectric Constant (60Hz)		3.9
Dissipation Factor (60Hz)		0.04

⁽¹⁾ Aluminum lap shear. ⁽²⁾, ⁽³⁾ In-house test method.

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

Potential Applications

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

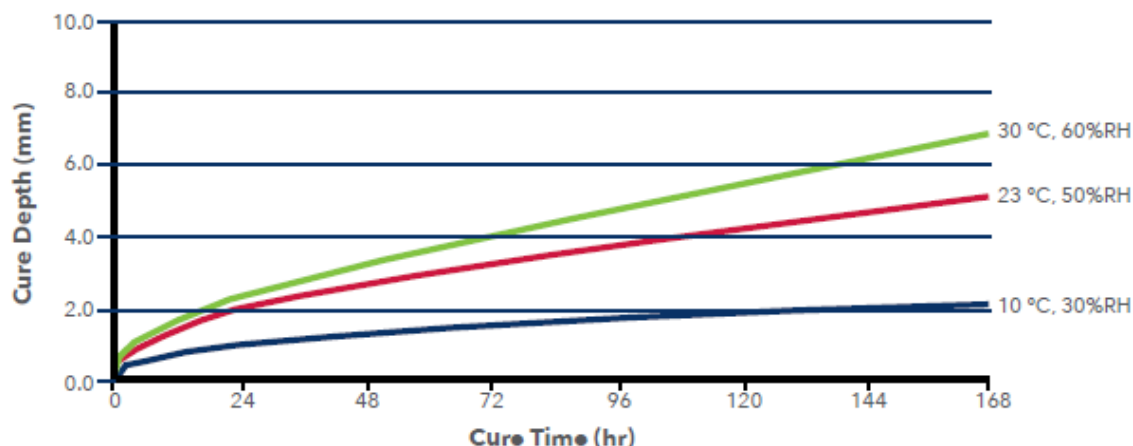
Adhesion Performance

SnapSil TN8000 silicone adhesive sealant has excellent bonding properties and has demonstrated adherence to any materials without primers.

	SnapSil TN8000-W, -B, -G sealant
Aluminum	O
Stainless steel	O
Copper	O
Mild steel	O
Zinc plate	O
Nickel plate	O
Acrylic resin	O
Polyester	O
Epoxy resin	O
Polycarbonate	O
ABS	O
PBT (Polybutylene terephtharate)	O
PPS (Polyphenylene sulfide)	O
PET (Polyphenylene terephtharate)	O
PPE (Polyphenylene ether)	O
Modified PPO	O
Phenolic resin	O
Nylon-6	O
Nylon-66	O
PVC (Polyvinyl chloride)	O
Glass	O
PE (Polyethylene)	X
PP (Polypropylene)	X

O: Adheres completely (Cohesive failure), x: Does not adhere
 Test data. Actual results may vary.

Cure Performance



Note: Test data. Actual results may vary.

General Considerations for Use

- Substrate surface should be thoroughly cleaned with a suitable solvent such as alcohol, xylene methyl ethyl ketone (MEK) etc.
 - Wear eye protection and protective gloves as required while handling.
 - Adequate ventilation must be maintained in the work place at all times.
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- While the typical operating temperature for silicone materials ranges from -45°C to 200°C, the long-term maintenance of its initial properties is dependent upon design related stress considerations, substrate materials, frequency of thermal cycles, and other factors.

Current Packaging

- 333ml cartridge in case of 10
- 25kg pail

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.

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