

## **== Preliminary Product Data ==**

**High strength  
Non-corrosive  
Silicone adhesive Sealant**

# **SnapSil \* TN5015-G**

### **PRODUCT DESCRIPTION**

TN5015-G is a one component, low volatile siloxane, condensation cure silicone adhesive that cures at room temperature with exposure to atmospheric moisture. It forms an elastic silicone rubber and found out good adhesion and Tensile strength.

### **KEY FEATURES**

- ◆ High strength, High adhesive and High Elongation
- ◆ Low volatility
- ◆ Small shrinkage value at cure time
- ◆ Non-corrosive to metals

### **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.

### **TYPICAL PROPERTY DATA**

(JIS K 6249)

<b>UNCURED PROPERTIES (23°C, 50% RH)</b>		
Appearance		Thixotropic past, Gray
Tack-free Time	min	30
<b>CURED PROPERTIES (3days @ 23°C, 50% RH)</b>		
Appearance		Elastic rubber, Gray
Density	g/cm <sup>3</sup>	1.22
Hardness (Type A)		50
Tensile strength	MPa	4.5
Elongation	%	250
Adhesion strength <sup>*1</sup>	MPa	3.0
Thermal conductive	W/mK	0.18
Volatile siloxane <sup>*2</sup> (D4-D10)	wt%	0.01
Volume resistivity	Ω·cm	8.5×10 <sup>15</sup>
Dielectric strength	kV/mm	27
Dielectric constant (60Hz)		3.3
Dissipation factor (60Hz)		0.03

\*1 Glass lap shear, 7days @ 23°C, 50%RH \*2 In-house test method

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**ADHESION PERFORMANCE**

<b>Substrate</b>	
Aluminum	○
Stainless	○
Copper	○
Steel	○
Polyester resin	○
Epoxy resin	○
Polycarbonate	○
PET	○
ABS	△
PPE	○
PPS	○
PBT	△
6-nylone	○
66-nylone	○
Rigid vinyl chloride resin	○
Polyethylene	×
Polytetrafluoroethylene	×
Glass	○
Phenolic resin	○

○: Excellent (Cohesive failure) △: Good (Cohesive Failure) ×: Poor (Adhesive failure)

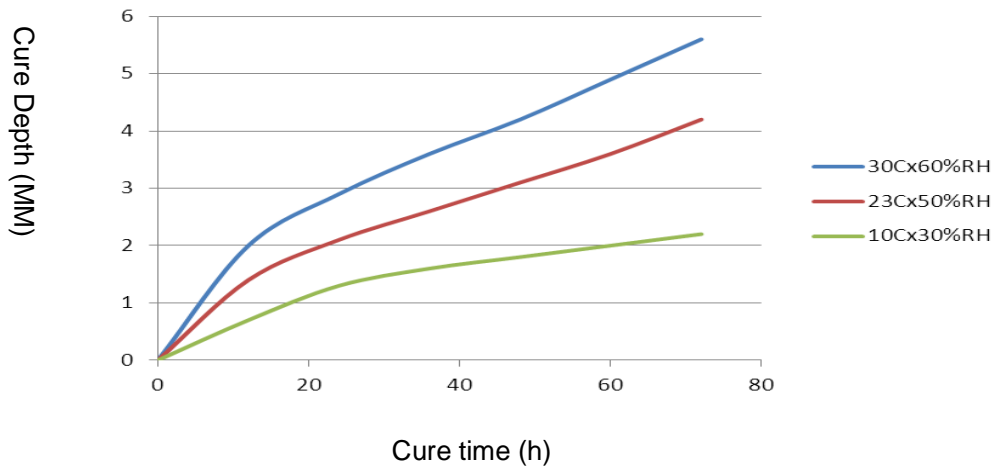
**Cure Profile**

SnapSil TN5015-G 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 TN5015-G silicone adhesive at various combinations of humidity and temperature are provided below.

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### Small shrinkage value at cure time

TN5015-G found out small shrinkage value at cure time comparison with Momentive existing materials.

Existing material : Weight loss 1.8 – 2.0Wt% at 23 degree

TN5015-G : Weight loss 0.8 – 1.0Wt% at 23 degree

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### **HANDLING AND SAFETY**

- ◆ Wear eye protection and protective gloves at all times when working with this product.
- ◆ Maintain adequate ventilation in the work place at all times.

### **STORAGE**

- ◆ Store in a cool, dry place out of direct sunlight.
- ◆ Keep out of the reach of children.

### **PACKAGING**

- ◆ 333 ml cartridge available in case of 10
- ◆ 18 kg pail available

### **\*SnapSil is a registered trademark of Momentive Performance materials inc.**

The sample provided is a material that is made on an experimental basis, and its specifications are subject to change. Delivery of this sample does not indicate a commitment to commercialize this material. In the event that the material is commercialized, the product name is subject to change.

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