

SNAPSIL™ TSE3261G

Heat Resistant Silicone Adhesive

Description

SNAPSIL TSE3261-G is a one-component, heat curable silicone adhesive designed for high temperature applications. It adheres well to a variety of substrates, such as metals, plastics, ceramics and glass without the use of a primer.

Key Features and Typical Benefits

- One component: ready to use
- Excellent high temperature resistance
- Heat accelerated cure
- Excellent adhesive properties: Primerless adhesion to many types of substrates
- Gray color
- Non corrosive to metals

Potential Applications

- Sealing and bonding for high temperature applications
 - Heaters, Steam irons, Microwave ovens, etc

Typical Physical Properties

(JIS K 6249)

Uncured Properties		
Appearance		Gray, Flowable
Viscosity (23°C)	Pa·s	50

Cured Properties (1h at 150°C)		
Appearance		Gray
Density (23°C)	g/cm ³	1.48
Hardness (Type A)		52
Tensile Strength	MPa	4.9
Elongation	%	160
Adhesive Strength ⁽¹⁾	MPa	2.0
Thermal Conductivity ⁽²⁾	W/(m·K)	0.41
Volume Resistivity	Ω·cm	2.0×10 ¹⁵
Dielectric Strength	kV/mm	22
Dielectric Constant (60Hz)		3.9
Dissipation factor (60Hz)		0.005

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

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

Heat Resistance

Lap shear adhesion strength at 250 °C (Substrate: aluminum)

Time h	Adhesion Strength MPa {kgf/cm²}	Cohesion Failure %
Initial	2.0 {20}	100
500	1.8 {18}	100
1000	1.8 {18}	100
2000	2.0 {20}	100

Cure Time vs. Temperature

Actual cure time will depend on the type and efficiency of the oven used, and the shape and heat capacity of the parts and containers. A sample test should be conducted to determine the appropriate cure time. Typical cure times and temperatures are as follows.

Temperature °C	Cure Time
120	2h
150	1h
180	10min

Adhesion Capability

Suitable substrates

Metals: Aluminum, Copper, Ni plated, Stainless Steel

Plastics: PPS, PBT, Epoxy resin, Polyester, Phenolic resin

Rubbers: Heat Cured Silicone Rubber

Inorganics: Glass, Ceramics

Unsuitable substrates

Plastics: PP, PE, Fluorocarbon resin, Polyacetal

Rubbers: RTV Silicone Rubber, Sulfur vulcanized rubbers, Fluorocarbon rubber

Product Handling and Safety

- Materials such as water, sulfur, nitrogen compounds, organic metallic salts, phosphorus compounds, etc. contained in the surface of the substrate can inhibit curing. A sample patch should always be conducted before proceeding to determine compatibility.
- All parts should be as clean and dry as possible prior to application.
- Wear eye protection and protective gloves as required when working with this product.
- Maintain adequate ventilation in the work place at all times.

Storage

- Store in a refrigerator (0-10°C) to prevent viscosity increase.
- When returning to room temperature, allow the contents to return to room temperature before opening the container to avoid condensation.
- Keep out of the reach of children.

Packaging

- 1.5 kg can available in cases of 10
- 25 kg pail available

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

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