

## SNAPSIL™ TSE387 SILICONE ADHESIVE SEALANT

SNAPSIL TSE387 is a one-component, oxime curing, silicone adhesive sealant, which cures at room temperature with moisture in the air to an elastomeric rubber. TSE387 has a pourable consistency and excellent adhesion to metals, plastics, ceramics and glass without the use of a primer.

### Key Features and Typical Benefits

- Primerless adhesion to many substrates
- Neutral cure; little risk of corrosion (corrosion to copper and copper alloys)
- Excellent dielectric properties
- Excellent weatherability; ozone and chemical resistance
- Can be supplied in translucent, black, and white
- Simple and easy-to-use one-component system

### Typical Physical Properties

Typical uncured Properties		
Appearance		Flowable material
Tack-free Time at 23°C	minutes	90
Viscosity at 23°C	Pa.s	60
Typical Cured Properties (7 days @ 23°C / 50% RH)		
Appearance		Elastic rubber
Density (23 °C)	g/cm <sup>3</sup>	1.03
Hardness (Type A)		25
Tensile Strength	MPa	2.3
Elongation	%	350
Adhesive Strength <sup>(1)</sup>	MPa	1.3
Volume Resistivity	Ω·cm	1 x 10 <sup>15</sup>
Dielectric Strength	kV/mm	20
Dielectric Constant (60Hz)		2.9

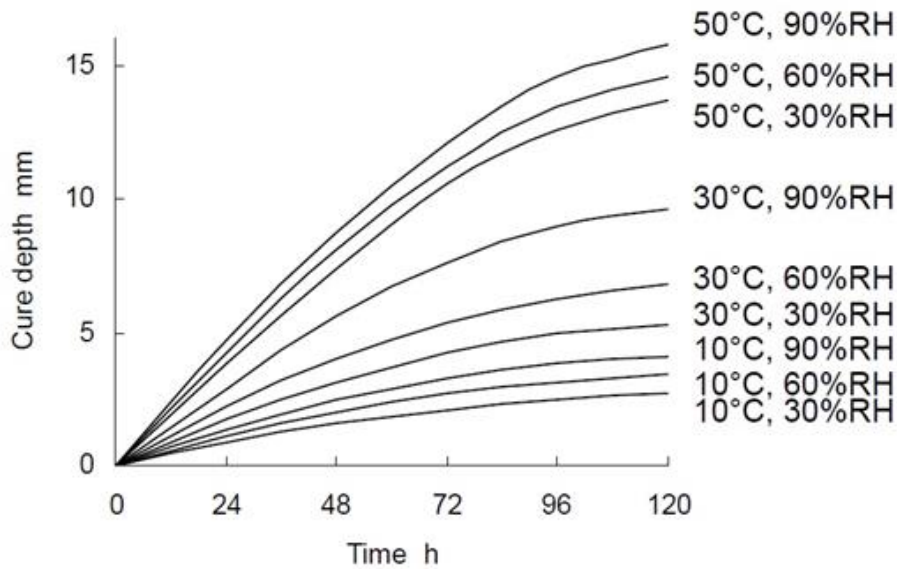
Dielectric Loss (60Hz)

0.004

(1) Aluminum Lap Shear Typical data property values should not be used as specifications

## Potential Applications

- Industrial sealing and coating.
- Electrical insulation
- Thin section potting of electrical components
- General adhesive for metals, glass and plastics



## Adhesion Performance

TSE387 has excellent bonding properties and adheres to many materials without primers. However, for significantly better adhesion on difficult-to-bond substrates, use of a primer is suggested. The following list of substrates shows the quality of adherence of TSE387 used with ME121, ME123, YP9341, XP80-A533 or without a primer.

SUBSTRATE	NO PRIMER	ME121	ME123	YP941/ XP80-A5363
<b>Metals</b>				
Copper	△ <sup>*1</sup>	○ <sup>*1</sup>		
Steel	○	○		
Mild steel	○	○		
Brass	△ <sup>*1</sup>	○ <sup>*1</sup>		
Stainless steel	△	○		
Aluminum	○	○		
Corrosion-resistant aluminum	○	○		
Galvanized sheet iron	○	○		
Tin plate	○	○		
<b>Plastics</b>				
Acrylic resin	○	○		
Phenolic resin	○	○		

SUBSTRATE	NO PRIMER	ME121	ME123	YP941/ XP80-A5363
Epoxy resin	○	○		
Polycarbonate	○ <sup>*2</sup>	○ <sup>*2</sup>		
Soft polyvinyl chloride	×	×	○	
Rigid polyvinyl chloride	○	○	○	
Polyester film	○	○	○	
Unsaturated polyester resin	○	○	○	
Polyimide	○	○	○	
Nylon 66	○		○	○ <sup>*3</sup>
PBT	△		○	×
PPS	△		○	○ <sup>*3</sup>
ABS resin	○	○	○	
Polypropylene	×	×	×	○ <sup>*4</sup>
Polyethylene	×	×	×	×
Polytetrafluoroethylene	×	×	×	
Silicone varnish laminate	○	○		
Silicone varnish coated glass cloth	○	○		
<b>Rubbers</b>				
Chloroprene	△		○	
Nitril	△		○	
Styrene butadiene	△		○	
Ethylene propylene	△		○	
Silicone	○		○	
<b>Others</b>				
Glass	○	○		
Ceramics	○	○		
Wood	△~○	△~○		

○: Excellent (Cohesive failure, 100%)    △: Not sufficient    ×: Poor (Cohesive failure, 0%)

\*1: Corrosion may occur depending on the application

\*2: Do not apply to Polycarbonate due to solvent crack.    \*3: YP9341    \*4: XP80-A5363

### 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](http://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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