

Electronic Industry

**DOW CORNING TORAY SILICONE SE9187L Adhesive/Sealant & Conformal Coating**

**FEATURES**

- Low viscosity
- Non-solvent based
- One-part RTV
- Non-corrosive, alcohol type cure
- Fast tack-free time
- Controlled volatility

**BENEFITS**

- Coats easily
- Eliminates need for local ventilation
- Easy to use moisture cure
- Can be used on PCBs and around delicate electronics
- Short production cycle time
- Minimized electrical contact failures
- Aids in high quality/reliability assembly process

**Non-solvent, one-part, fast tack-free, controlled volatility silicone RTV**

**APPLICATIONS**

- Typical applications include: LCD module assembly as an adhesive/sealant, LED module assembly as a potting, coating for connectors, electronic components or circuit boards as a conformal coating.

**TYPICAL PROPERTIES**

Specification writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales representative prior to writing specifications on this product.

Property	Unit	Value
<b>As supplied</b>		
Color		Translucent, white or black
Viscosity at 25°C (77°F)	mPa.s	1100
Tack-free time at 25°C (77°F)	min	9
<b>Physical properties, cured 72 hours at 25°C (77°F)</b>		
Specific gravity at 25°C (77°F)		1.00
Tensile strength	MPa	0.44
Elongation	%	170
Content of low molecular siloxane (D <sub>4</sub> -D <sub>10</sub> )	%	0.009
<b>Adhesion property, cured 168 hours at 25°C (77°F)</b>		
Adhesion strength (glass)	N/cm <sup>2</sup>	30
<b>Electrical properties, cured 72 hours at 25°C (77°F)</b>		
Dielectric strength	kV/mm	20
Volume resistivity	Ohm.cm	3E+15
Dielectric constant at 1 MHz		2.8
Dissipation factor at 1 MHz		9E-4

**HOW TO USE**

**Substrate preparation**

All substrates must be clean and dry. Degrease and wash off any contaminants that could impair adhesion.

**How to apply**

Apply DOW CORNING TORAY SILICONE SE9187L to the surface of substrates to be coated by use of dispensing equipment.

## **Curing**

Since DOW CORNING TORAY SILICONE SE9187L is a moisture cure silicone, its cure speed will depend upon the thickness of DOW CORNING TORAY SILICONE SE9187L applied, the temperature and humidity. A cure rate of 3mm depth in 48 hours may be expected at 20°C (68°F) and 55% R.H.

## **HANDLING PRECAUTIONS**

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Dow Corning website at [www.dowcorning.com](http://www.dowcorning.com). You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

## **USABLE LIFE AND STORAGE**

When stored at or below 32°C (90°F) in the original unopened containers, DOW CORNING TORAY SILICONE SE9187L

- 95g tube-packed has a usable life of 15 months,
- 330ml cartridge-packed has a usable life of 12 months and
- 18kg pail-packed has a usable life of 7 months, all from the date of production.

## **PACKAGING**

This product is available in

- 95g tubes (clear, white)
- 330ml cartridges (clear, white, black)
- 18kg pails (clear, black)

## **LIMITATIONS**

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

## **HEALTH AND ENVIRONMENTAL INFORMATION**

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, [www.dowcorning.com](http://www.dowcorning.com) or consult your local Dow Corning representative.

## **LIMITED WARRANTY INFORMATION - PLEASE READ CAREFULLY**

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customers' tests to ensure that Dow Corning's products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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