

## EN 943-19 Black Silicone Encapsulant

### Description

EN 943-19 is one part black colored adhesive based on silicone rubber. The cured encapsulant of over 150°C provides very good high temperature performance. It has good adhesion to glass, metal, printed circuit boards and electronic components. The thixotropy has been adjusted to control excessive overflow. The cured material has a smooth shiny surface and high hardness of shore A.

### Properties

Property	Test Method	Unit	Typical Value
Chemical type	-	-	Silicone
Appearance	Pen 10	-	Black viscous liquid
Mix ratio, by weight	-	-	One component
Density, 25°C	Pen 61	g/cm <sup>3</sup>	1.03
Shelf life, -20°C	Pen 26	Month	6
Pot life, 25°C	Pen 26	Day	5
Viscosity, CAP 2000+, 5rpm, 25°C	Pen 44	cP	4,800
Thixotropic index	Pen 37	-	2.0
Hardness	Pen 29	Shore A	64

### Applications

1. Encapsulation of ICs on printed circuit boards.
2. Sealing of electronic and electrical devices.

### Guidelines for Use

1. Thaw the silicone to room temperature (25°C) before use.
2. Dispense the silicone by using a syringe.
3. Cure the silicone by heating at 150°C for 30 minutes.
4. Wipe off any excess uncured adhesive with a piece of dry cloth or tissue. Further cleaning may be achieved with tissue wetted with iso-propanol or toluene.
5. Avoid contamination the the silicone by solder flux residue, amine, sulphur and tin containing compound, and moisture, as this will inhibit the curing of the silicone.

### Recommended Cure

Temperature	Cure Time
150°C	30 minutes
120°C	2 hours

### Storage

Tightly close original container of unused product. Store at below -20°C. Storing at lower temperatures down to -40°C may prolong shelf life beyond 6 months. However it may take longer time to thaw the product.

### Packaging

- 10ml EFD syringe
- 30 ml EFD syringe
- 1 kg plastic jar

### Environment, Health & Safety

This product is RoHS compliant. It does not contain any known carcinogenic, mutagenic or teratogenic components.

### Contact Information

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