



Silicone & Epoxy Technology

53 C Otis St.
West Babylon, NY 11704
Tel. 631-920-5079 Fax 631-920-0503
E-mail: SalesSET@optonline.net
www.SET-mfg.com

Set-Sil 849 Thermally Conductive Silicone

Set –Sil 849 is a general purpose potting, encapsulant and molding material. Set-Sil 898 has a high heat resistance and good thermal conductivity.

Properties-Uncured

Color, visual	Red
Viscosity, cps (Mixed)	45,000±2000
Specific Gravity	2.30
Mix Ratio	0.1 to 0.5 (dbt)
Pot life @ 25° C, min	15-120
Shelf Life @ 25° C, months	6

Physical Cured Properties

Durometer, Shore A	75
Tensile Strength, psi	600
Tensile Elongation,%	100
Tear Strength, lb/in	25
Coefficient of Thermal Expansion (cm/cm-C)	70 X 10 ⁻⁵
Thermal Conductivity, BTU-in/ft ² (hr)(°F)	10
Service Temperature, °C	-55 to 260

Electrical

Dielectric Strength, Volts/mil	550
Dielectric Constant, 1 KHz	5.7
Dissipation Factor, 1 KHz	0.01
Volume Resistivity, Ohm-cm	1.0 X 10 ¹⁴

Mixing Instruction:

Weigh out the required amount of Set-Sil 849A and B by weight. Mix Thoroughly, scrapping both the bottom and sides of the mixing container. Evacuate mixture @ 29 in Hg until all air is released to insure void-free casting.

Cure Schedule:

Overnight at room temperature 73°F (25°C).

SEE BACK OF TECHNICAL DATA SHEET FOR WARRANTY.

Warranty

Silicone & Epoxy Technology accepts no liability, in negligence or otherwise, in this communication. Under no circumstances shall the company be liable for incidental, consequential or other damages from alleged negligence, breach of warranty, strict liability or any other theory, arising out of the use or handling of this product. The sole liability shall be the purchase price of the product. You should test the material to determine if the material is suitable, and/or claims are valid, in your particular circumstances. None of the possible or suggested uses of the materials in this communication are licensed under any Silicone & Epoxy Technology patent covering such use or a recommendation for use of such materials in the infringement of any patent.

Silicone & Epoxy Technology

Phone: 631-920-5079 Fax: 631-920-0503

Place Orders To: SalesSET@optonline.net

www.SET-mfg.com