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# TECHNICAL DATA SHEET

## SOLARITE EP-102HTC

**DESCRIPTION:** Solarite EP-102HTC is a flexible flame resistant one-component heat cure epoxy potting and casting compound, designed specifically for coil impregnation and potting of transformers. Special inorganic fillers make EP-102HTC thermally conductive in order to dissipate heat from densely populated components.

### SPECIFICATIONS—UNCURED:

Color, Visual	Black
Viscosity, cps, ASTM-D-2393	12000
Specific Gravity	2.0
Gel Time, 100°C, Hours	2
Shelf Life, 5°C, Months	6

### SPECIFICATIONS—CURED:

#### PHYSICAL:

Durometer, ASTM-D-2240	50D
Tensile Strength, psi, ASTM-D-638	6500
Tensile Elongation, Percentage, ASTM-D-638	20
Thermal Conductivity, BTU-in/ft <sup>2</sup> (Hour) (°F)	10
Flammability, UL 94V0	na
Service Temperature, °C	155

#### ELECTRICAL PROPERTIES:

Dielectric Strength, Volts/Mil, ASTM-D-149	435
Dielectric Constant, 1 KHz, ASTM-D-150	4.6
Dissipation Factor, 1 KHz, ASTM-D-150	0.02
Volume Resistivity, ohm/cm, ASTM-D-257	1x10 <sup>15</sup>

### **USE INSTRUCTIONS:**

1. Pre-mix contents of container before use to ensure the entire contents are uniform. Some settling may occur upon prolonged storage the is soft and easily incorporated.
2. Heat product to 100-175F to lower viscosity and aid pouring.
3. De- air if necessary at 760 mm of Hg for 5-10 minutes.
4. Pour into cavity to be encapsulated.

**CURE SCHEDULE:** Dipping and lowest shrinkage :6-8 [hours@200F](#) then3-5 [hours@220F](#) then 2-3 [hours@250F](#) and final post cure 1-2 hours@ 300F.Casting and Potting operations 7-9 [hours@200F](#) (lowest shrinkage)and final cure 1-2 hours@300F.

### **STORAGE REQUIREMENTS:**

This product has a tendency to settle upon storage and shipment, materail should be mixed well prior to use. One component epoxies are pre-catalyzed and have a limited shelf life do not store at elevated temperatures. Store in a cool dry place

### **IMPORTANT:**

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### **HEALTH CAUTION:**

Avoid breathing possible fumes, mists and vapors which can cause severe respiratory damage. Use of NIOSH approved breathing apparatus is required for more than minimal exposure. Always work in areas with adequate ventilation to allow dissipation of polyamine and other chemical fumes, and where applicable, solvent fumes. Use of goggles, protective garments, rubber gloves, protective cream is required. If material gets into eyes, flush thoroughly with clear water for twenty (20) minutes; then seek medical treatment. Avoid skin contact. Material can cause contact dermatitis. Always wash exposed areas immediately, using warm water and soap, followed by rinsing with clean water. Observe all safety precautions. It is important when using solvent based materials or solvents to keep away from open flame or ignition source.

**PLEASE REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER FIRST AID INFORMATION.**

FOR CHEMICAL EMERGENCY  
CALL CHEMTREC (DAY OR NIGHT) 800-424-9300.