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TECHNICAL DATA SHEET

SOLARITE EP-0610

DESCRIPTION: Solarite EP-0610 is a rigid heat curing 1 to 1 by weight epoxy potting and casting compound, whose convenient mixing ratio makes it easy to use. EP-0610 has excellent electrical properties, arc resistance, track resistance and produces void free castings when potting electrical components. Designed to withstand service temperatures upto 180C often seen in transformers and coils during operation. (Note: EP-0610 can also be supplied as a single component product)

SPECIFICATIONS—UNCURED:

	Part A	Part B
Color, Visual	Black	Neutral
Mix Ratio—By Weight	1	1
Specific Gravity	1.6	1.5
Viscosity, cps, ASTM-D-2393 @ 75F	35,000	7,000
@ 150F	8,000	1,700
Mixed Viscosity, cps, ASTM-D-1084 @ 75F	18,000	
@ 150F	4,400	
Cure ,Hours@ 130C	4	
Gel Time, Hours,130 °C	0.5-0.91	
Shelf Life, 25°C, Months	12	

SPECIFICATIONS—CURED:

PHYSICAL:

Durometer, ASTM-D-2240	85-90D
Thermal Conductivity, BTU-in/ft ² (Hour) (°F)	4.5
Service Temperature, °C	180

ELECTRICAL PROPERTIES:

Dielectric Strength, Volts/Mil, ASTM-D-149	445
Arc-Track Free at 2.5KV,min	>2000
Dielectric Constant, 1 kHz, ASTM-D-150	2.9
Dissipation Factor, 1 kHz, ASTM-D-150	0.02
Volume Resistivity, ohm/cm, ASTM-D-257	1x10 ¹⁵

USE INSTRUCTIONS:

1. Pre-mix contents of containers before use to ensure the entire contents are uniform. Some settling may occur upon prolonged storage the is soft and easily incorporated. Measure out contents according to the specified mix ratio and mix together.
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. Cavity may also be pre-heated to aid penetration and de-gassing

CURE SCHEDULE: 4 [hours](#)@130C or 12 hours @100C

STORAGE REQUIREMENTS:

This product has a tendency to settle upon storage and shipment, material should be mixed well prior to use. 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.