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# TECHNICAL DATA SHEET

## SOLARITE EP-220

**DESCRIPTION:** Solarite EP-220 is a two component semi-flexible, potting and casting compound that exhibits excellent electrical and physical properties over a wide range of temperatures. EP-220 also exhibits excellent thermal cycling ( -55°C to 155°C) properties.

### SPECIFICATIONS—UNCURED:

	<b>Part A</b>	<b>Part B</b>
Color, Visual	Black	Neutral
Mix Ratio—By Weight	2	3
Viscosity, cps, ASTM-D-2393	60,000	60,000
Specific Gravity	1.50	1.60
Pot Life, 100 Gram Mass, Hours		48 Hours
Mixed Viscosity, cps, ASTM-D-1084		60,000
Shelf Life, 25°C, Months		12

### SPECIFICATIONS—CURED:

#### PHYSICAL:

Durometer, ASTM-D-2240	65-70
Thermal Conductivity, BTU-in/ft <sup>2</sup> (Hour) (°F)	2.88
Flammability, UL 94V0	na
Service Temperature, °C	-50 to155

#### ELECTRICAL PROPERTIES:

Dielectric Strength, Volts/Mil, ASTM-D-149	380
Dielectric Constant, 1 kHz, ASTM-D-150	4.5
Dissipation Factor, 1 kHz, ASTM-D-150	0.028
Volume Resistivity, ohm/cm, ASTM-D-257	2 x 10 <sup>15</sup>

#### USE INSTRUCTIONS:

1. Pre-mix both components to ensure a uniform consistency
2. Pre-heat both components to 60-65C, to lower viscosity for ease of mixing.
3. Measure out components 2A to 3B by weight.
4. Evacuate at 760 mm Hg for avoid free casting.
5. Pour into equipment to be potted.

**CURE SCHEDULE:**

3 hours @ 120C or 24 hours @ 80C

**STORAGE REQUIREMENTS:**

Store at 60F and above.

**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.