

**EPOXY SC 84110**

**TWO PART CONDUCTIVE ADHESIVE**

**TECHNICAL DATA**

**Product Description**

Epoxy SC 84110 is a snap cure epoxy system designed to be used as an electrically conductive adhesive. This two part silver filled product provides excellent moisture resistance. Epoxy SC 84110 snap cures to a highly electrically and thermally conductive polymer that bonds well to glass, PCB, engineered plastics, and most metals. Once cured this 100% solids system complies with the requirements of NASA's Outgassing Specification.

**APPLICATIONS**

- NASA applications

**FEATURES**

- Two part
- Snap cure
- Moisture and chemically resistant
- Electrically conductive

**RECOMMENDED SUBSTRATES**

- Glass
- PCB
- Engineered plastics
- Metals

**UNCURED PROPERTIES\***

| Property                     | Value                        | Test Method |
|------------------------------|------------------------------|-------------|
| Solvent Content              | No Nonreactive Solvents      | N/A         |
| Chemical Class, PT A:B       | Epoxy:Amine                  | N/A         |
| Color, PT A:B                | Silver : Brown               | N/A         |
| Viscosity @ 25C, cps, PT A:B | Smooth Paste : 13,500-14,500 | TFTEST001   |
| Specific Gravity, PT A       | 2.95                         | TFTEST002   |
| Specific Gravity, PT B       | 1.12                         | TFTEST002   |

**CURED MECHANICAL PROPERTIES\***

| Property                       | Value      | Test Method |
|--------------------------------|------------|-------------|
| Durometer Hardness, Shore D    | 85         | TFTEST012   |
| Shrinkage, %                   | <1         | N/A         |
| Operating Temperature Range, C | -60 to 155 | N/A         |
| Tensile Strength, psi          | > 1,000    | TFTEST005   |
| Tensile Lap Shear, Al/Al, psi  | 1,500      | TFTEST005   |
| Electrical Resistivity, ohm-cm | 0.004      | N/A         |

**CURE OVERVIEW\***

| Property                            | Value | Test Method |
|-------------------------------------|-------|-------------|
| Mix Ratio by Weight, Resin:Hardener | 10:1  | N/A         |
| Work Life @ 25C, hr                 | 5     | N/A         |
| Cure Time @ 85C, sec                | 30    | N/A         |

**Storage:**

Store material in cool, dry location at a temperature between 15°C to 30°C. Refer to packaging specific quote for shelf life information. Consult MSDS for safe handling recommendations.

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