

EPOXY SC 092810

TWO PART CONDUCTIVE ADHESIVE

TECHNICAL DATA

Product Description

Epoxy SC 092810 is a long work life, two part, silver filled epoxy system designed to be used as a solder replacement. This material can be cured at room temperature in 24-48 hours. Cured product provides a high amount of flexibility, excellent electrical conductivity, and chemical resistance.

APPLICATIONS

- Soldering replacement

FEATURES

- Conductive
- Heat cure
- Low outgassing
- Electrically conductive
- Flexible

RECOMMENDED SUBSTRATES

BIOCOMPATIBILITY

UNCURED PROPERTIES*		
Property	Value	Test Method
Solvent Content	No Nonreactive Solvents	N/A
Chemical Class	Epoxy	N/A
Color	Silver	N/A
Viscosity @ 25°C, cps	Smooth Paste	ASTM D1084
Specific Gravity, A:B	3.4 : 2.7	N/A
Filler Type	Silver Flake	N/A
Filler Size, microns	<45	N/A

CURED MECHANICAL PROPERTIES*		
Property	Value	Test Method
Durometer Hardness, Shore D	40	ASTM D2240
Elongation, %	82	ASTM D638
Operating Temperature Range, °C	-50 to 155	N/A
Tensile Strength, psi	>2,000	ASTM D638
Tensile Lap Shear, Al/Al, psi	>1,400	ISO 4587
Electrical Resistivity, ohm-cm	<0.0004	N/A
CTE, -40-80°C, ppm	62	ASTM D696
Peak Intermittent Temperature, °C	180	N/A

CURE OVERVIEW*		
Property	Value	Test Method
Mix Ratio by Weight, Resin:Hardener	100:115	N/A
Work Life @ 25°C, hr	1-2	N/A
Gel Time @ 25°C, hr	12	N/A
Cure Time @ 25°C, hr	24-48	N/A
Cure Time @ 65°C, hr	2	N/A
Cure Time @ 100°C, min	30	N/A

Storage:

Store material in cool, dry location at a temperature between 10°C to 28°C. Refer to packaging specific quote for shelf life information. Consult MSDS for safe handling recommendations.

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