

Epoxies, Ect. 40-3900

Epoxies; Epoxide

Epoxies, Etc.

Message:

40-3900 is a two component epoxy adhesive filled with silver. This electrically conductive epoxy resin formulation offers continuity of conductivity with an electrical resistivity value of less than 1×10^{-4} ohm-cm. 40-3900 is also well known for its wide operating temperature range, -50 to + 170°C. 40-3900 is specifically designed for adhesive bonding in microelectronic and optoelectronic applications. Due to its excellent continuity, it has also been used extensively in applications such as micro-wave EMI and RFI shielding, in the assembly or repair of printed circuit boards, wave guides, electronic modules, flat cable, high frequency shields, connectors, circuitry, and as a cold solder. 40-3900 is formulated with pure silver (no alloys) and is designed in a convenient 1:1 mix ratio. Both the resin and hardener have silver powder dispersed.

- Features:
- Electrically conductive
 - Thermally conductive
 - Room temperature cure
 - Easy 1:1 mix ratio
 - Good bond strength

General Information		
Filler / Reinforcement	Silver	
Features	Bondability	
	Electrically Conductive	
	Electromagnetic Shielding (EMI)	
	Good Adhesion	
	Radio Frequency Shielding (RFI)	
	Thermally Conductive	
Uses	Adhesives	
	Bonding	
	Connectors	
	Electrical/Electronic Applications	
	Printed Circuit Boards	
	Wire & Cable Applications	
Appearance	Silver	
Mechanical	Nominal Value	Unit
Flexural Strength	70.3	MPa
Thermal	Nominal Value	Unit
Thermal Conductivity	7.9	W/m/K
Additional Information	Nominal Value	Unit
Operating Temperature	-50.0 to 170	°C
Uncured Properties	Nominal Value	Unit
Color	Silver	
Mix Ratio by Weight (PBW)		
Part A	1.0	

Part B	1.0	
Density		
25°C ¹	1.80	g/cm ³
25°C ²	2.97	g/cm ³
Curing Time		
90°C	0.25	hr
65°C	1.0	hr
25°C	24	hr
Pot Life ³ (25°C)	60	min
Shelf Life	12	month
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	70	
Lap Shear Strength ⁴	4.83	MPa
Volume Resistivity	1.0E-4	ohms·cm
NOTE		
1.	Part B	
2.	Part A	
3.	100 grams	
4.	Al to Al	

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