

Epoxies, Ect. 40-3909

Epoxy; Epoxide

Epoxies, Etc.

Message:

40-3909 is a two component epoxy adhesive and coating filled with silver coated nickel. This electrically conductive epoxy resin provides low volume resistivity of less than 5×10^{-3} ohm-cm. Silver coated nickel offers a lower cost alternative to many silver filled epoxy systems.

40-3909 has a convenient 1:1 mix ratio by weight. It is designed to cure at room temperature overnight but can also be accelerated with mild heat. Due to its excellent electrical continuity and high thermal conductivity, 40-3909 has been used in the assembly or repairs of printed circuit boards, connectors, wave guides, high frequency shields, and as a cold solder.

Features:

Electrically conductive

Thermally conductive

Room temperature cure

Easy 1:1 mix ratio

Good bond strength

Cost effective alternative to silver epoxy

General Information		
Filler / Reinforcement	Nickel	
Features	Bondability	
	Electrically Conductive	
	Good Adhesion	
	Thermally Conductive	
Uses	Connectors	
	Electrical/Electronic Applications	
	Printed Circuit Boards	
Appearance	Grey	
Mechanical	Nominal Value	Unit
Flexural Strength	70.3	MPa
Thermal	Nominal Value	Unit
Thermal Conductivity	1.4	W/m/K
Additional Information	Nominal Value	Unit
Operating Temperature	-40.0 to 135	°C
Uncured Properties	Nominal Value	Unit
Color	Grey	
Mix Ratio by Weight (PBW)		
Part A	1.0	
Part B	1.0	
Density		
25°C ¹	3.03	g/cm³
25°C ²	3.03	g/cm³
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)	80	
Lap Shear Strength ⁴	14.5	MPa
Volume Resistivity	5.0E-3	ohms·cm
NOTE		
1.	Part B	
2.	Part A	
3.	100 grams	
4.	Al to Al	

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