

Epoxies, Ect. 40-3905

Epoxy; Epoxide

Epoxies, Etc.

Message:

40-3905 is an electrically conductive epoxy system designed for applications requiring low temperature cures. 40-3905 will cure at room temperature in 18-24 hours or can be accelerated with mild heat.

This is a solvent free epoxy system filled with pure silver. It has outstanding adhesion to plastics, aluminum, copper, magnesium, steel, bronze, nickel, kovar, ceramic, glass, phenolic, and printed circuit boards. 40-3905 can also be thinned with up to 10% Toluol for many coating applications.

Features:

Electrically conductive

Thermally conductive

Room temperature cure

Good bond strength

General Information		
Filler / Reinforcement	Silver	
Features	Bondability	
	Electrically Conductive	
	Good Adhesion	
	Thermally Conductive	
Uses	Coating Applications	
	Electrical/Electronic Applications	
	Printed Circuit Boards	
Physical	Nominal Value	Unit
Molding Shrinkage - Flow	0.30	%
Mechanical	Nominal Value	Unit
Flexural Strength	75.2	MPa
Thermal	Nominal Value	Unit
CLTE - Flow	2.6E-5	cm/cm/°C
Thermal Conductivity	8.7	W/m/K
Additional Information	Nominal Value	Unit
Operating Temperature	-60.0 to 135	°C
Uncured Properties	Nominal Value	Unit
Mix Ratio by Weight (PBW)		
Part A	100	
Part B	5.0	
Density		
25°C ¹	0.998	g/cm ³
25°C ²	2.97	g/cm ³
Curing Time		
65°C	2.0 to 3.0	hr

25°C	18 to 24	hr
Pot Life ³ (25°C)	45	min
Shelf Life	12	month
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	80 to 85	
Lap Shear Strength ⁴	8.27	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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