

Epoxies, Ect. 70-3812 NC

Epoxy; Epoxide

Epoxies, Etc.

Message:

70-3812 NC is a two component, aluminum filled epoxy system. This system is used for making heat resistant tools, parts, or bonds that require the highest thermal conductivity and heat resistance. We have developed this extremely conductive epoxy by formulating it with a unique combination of fillers, particle sizes and dispersion techniques.

70-3812 NC has good heat dissipation making this a popular choice for a variety of heat sink applications. Its viscosity is particularly suited for Fin bonding.

70-3812 NC passes NASA's outgassing requirements per ASTM E-595-07.

- Features:
- Excellent Thermal Conductivity
 - Superior Adhesion
 - Low viscosity allows quick self leveling

General Information		
Features	Bondability	
	Conductive	
	Good Adhesion	
	High Heat Resistance	
	Low Viscosity	
Uses	Adhesives	
	Bonding	
Agency Ratings	ASTM E 595	
Appearance	Grey	
Thermal	Nominal Value	Unit
CLTE - Flow	2.8E-5	cm/cm/°C
Thermal Conductivity	4.5	W/m/K
Additional Information	Nominal Value	Unit
Operating Temperature	-55.0 to 155	°C
	.07% CVCm	
Outgassing	.91% TML	
Uncured Properties	Nominal Value	Unit
Color	Grey	
Mix Ratio by Weight (PBW)		
Part A	100	
Part B	10	
Density (25°C)	1.81	g/cm³
Viscosity		


25°C ¹	8.0	Pa·s
25°C ²	130	Pa·s
Curing Time		
125°C	0.25 to 0.33	hr
65°C	0.75	hr
25°C	24	hr
Pot Life ³ (25°C)	300	min
Cured Properties	Nominal Value	Unit
Shore Hardness		
Shore D, 100°C	65	
Shore D, 25°C	90	
Tensile Strength	62.1	MPa
Compression Strength (25°C)	128	MPa
NOTE		
1.	Part B	
2.	Part A	
3.	100 grams	

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