

Epoxies, Ect. 50-3112

Epoxy; Epoxide

Epoxies, Etc.

Message:

50-3112 is a two component fast curing thermally conductive epoxy adhesive. This product was specifically formulated for use in the convenient TriggerBond® dual barrel cartridge system.

50-3112 has a simple 1:1 mix ratio and develops a 1,400 psi Lap Shear strength (aluminum to aluminum) in four hours at room temperature. After just twenty four hours the strength is over 2,200 psi.

50-3112 offers fast heat dissipation for a wide range of electronic applications. The black resin and white hardener provide an excellent visual indication of a complete mix.

Features:

- Fast room temperature cure
- Thermally conductive
- Packaged in TriggerBond® system
- Forms strong bonds to a variety of substrates
- Electrically insulating
- Vibration and impact resistant

General Information		
Features	Bondability	
	Electrically Insulating	
	Fast Cure	
	Good Adhesion	
	Good Impact Resistance	
	Thermally Conductive	
Uses	Adhesives	
	Electrical Parts	
	Electrical/Electronic Applications	
Appearance	Black	
Thermal	Nominal Value	Unit
CLTE - Flow		
-- 1	4.5E-5	cm/cm/°C
-- 2	1.8E-4	cm/cm/°C
Thermal Conductivity	1.0	W/m/K
Additional Information	Nominal Value	Unit
Operating Temperature	-40.0 to 120	°C
Uncured Properties	Nominal Value	Unit
Color		
-- 3	Black	
-- 4	Grey	
-- 5	White	
Density		

25°C ⁶	1.50	g/cm ³
25°C ⁷	1.50	g/cm ³
Viscosity		
25°C ⁸	70	Pa·s
25°C ⁹	70	Pa·s
Curing Time (23°C)	1.0 to 2.0	hr
Gel Time ¹⁰ (25°C)	15	min
Cured Properties	Nominal Value	Unit
Shore Hardness		
Shore D, 70°C	50	
Shore D, 25°C	80	
Lap Shear Strength		
-- ¹¹	15.4	MPa
-- ¹²	9.74	MPa
Electric Strength	17	kV/mm
Relative Permittivity (100 Hz, 25°C)	5.30	
Volume Resistivity (25°C)	2.4E+12	ohms·cm
NOTE		
1.	Below Tg	
2.	Above Tg	
3.	Part A	
4.	Mixed	
5.	Part B	
6.	Part B	
7.	Part A	
8.	Part B	
9.	Part A	
10.	15 grams	
11.	Al to Al, After 24 hours	
12.	Al to Al, After 4 hours	

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