

Epoxies, Ect. 50-1952

Silicone
Epoxies, Etc.

Message:

50-1952 is a two component silicone potting and encapsulating compound. This silicone system is designed for quick thermal transfer away from heat generating electronic devices. The 50-1952 has a simple 1:1 mix ratio, can be cured in thick sections, is non-corrosive, and reversion resistant. The black silicone resin and white activator provide an excellent visual indication of a complete mix.

50-1952 is formulated without solvents or other toxic materials. It is therefore not regulated or considered hazardous for transportation. 50-1952 is REACH and RoHS Compliant.

- Features:
- Flexible
 - Thermally conductive
 - Solvent free
 - Deep section curing (beyond 1-2 inches)
 - High operating temperatures
 - Easy 1:1 mix ratio
- Benefits:
- Low stress on components and vibration resistant
 - Quick heat dissipation extends electronic life
 - No by-products released during cure and safe to handle
 - No need for multiple pours due to low exotherm
 - Good protection in extreme environmental applications
 - Simple to use

General Information		
Features	Good Flexibility	
	Good Weather Resistance	
	Non-Corrosive	
	Thermally Conductive	
Agency Ratings	EC 1907/2006 (REACH)	
RoHS Compliance	RoHS Compliant	
Appearance	Grey	
Processing Method	Encapsulating	
	Potting	
Thermal	Nominal Value	Unit
CLTE - Flow	2.0E-4	cm/cm/°C
Thermal Conductivity	0.87	W/m/K
Thermoset	Nominal Value	Unit
Thermoset Mix Viscosity ¹ (25°C)	30000	cP
Additional Information	Nominal Value	Unit
Operating Temperature	-65.0 to 235	°C
Uncured Properties	Nominal Value	Unit
Color		
-- ²	Black	

-- 3	Grey	
-- 4	White	
Mix Ratio by Weight (PBW)		
Part A	100	
Part B	100	
Mix Ratio by Volume (PBV)		
Part A	100	
Part B	100	
Density		
25°C 5	2.04	g/cm ³
25°C 6	2.11	g/cm ³
Viscosity		
25°C 7	20	Pa·s
25°C 8	60	Pa·s
Curing Time		
150°C	0.33	hr
100°C	1.0	hr
65°C	2.0 to 4.0	hr
25°C	48 to 1.7E+2	hr
Pot Life 9 (25°C)	90	min
Shelf Life	6	month
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	75	
Tensile Strength	3.45	MPa
Tensile Elongation at Break	45	%
Electric Strength	18	kV/mm
Relative Permittivity	5.00	
Volume Resistivity (25°C)	1.0E+14	ohms·cm
NOTE		
1.	Mixed	
2.	Resin (Part A)	
3.	Mixed	
4.	Activator (Part B)	
5.	Part A	
6.	Part B	
7.	Part B	
8.	Part A	
9.	100 grams	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

