

# Epoxies, Ect. 50-1225

Silicone  
Epoxies, Etc.

Message:

50-1225 is a low viscosity, room temperature curing silicone potting and encapsulating compound. When cured, this material forms a soft, highly flexible, flame retardant, and thermally conductive package.

50-1225 can be used for potting or encapsulating electronic packages that have sensitive components. Due to its low stress during and after cure, this material will not crush or damage delicate components. This silicone system will maintain its low durometer through aging and thermal cycling.

50-1225 provides high heat transfer and does not require a post cure. It may be used immediately after curing at operating temperatures of -65°C to 210°C.

Features:

- Flexible
- Thermally conductive
- Solvent free
- Deep section curing (beyond 1-2 inches)
- high operating temperatures

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
- Good protection in extreme environmental applications

General Information		
Features	Flame Retardant	
	Good Corrosion Resistance	
	Good Flexibility	
	Good Weather Resistance	
	Low Viscosity	
	Soft	
	Thermally Conductive	
Appearance	White	
Processing Method	Encapsulating	
	Potting	
Physical	Nominal Value	Unit
Molding Shrinkage - Flow <sup>1</sup>	< 0.20	%
Thermal	Nominal Value	Unit
Thermal Conductivity	1.7	W/m/K
Additional Information	Nominal Value	Unit
Thermal Shock	Pass	
Uncured Properties	Nominal Value	Unit
Color	White	
Mix Ratio by Weight (PBW)		
Part A	100	

Part B	10	
Density (25°C)	2.00	g/cm <sup>3</sup>
Viscosity (25°C)	32	Pa·s
Pot Life <sup>2</sup> (25°C)	30	min
Shelf Life	6	month
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	35	
Tensile Strength	5.86	MPa
Tensile Elongation at Break	120	%
Electric Strength (1.59 mm)	24	kV/mm
Relative Permittivity		
1 kHz, 25°C	2.50	
100 Hz, 25°C	2.50	
Volume Resistivity	1.0E+14	ohms·cm
NOTE		
1.	3 days at 25°C	
2.	100 grams	

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#### Recommended distributors for this material

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