

Epoxies, Ect. 20-1650

Silicone
Epoxies, Etc.

Message:

20-1650 is a two component silicone elastomer designed for high temperature applications. Silicones offer thermal stability at high operating temperatures, but the 20-1650 is formulated with iron oxide to impart increased stability at elevated temperatures. It has a simple 1:1 mix ratio. 20-1650 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.

20-1650 is formulated without solvents or other toxic materials. It is therefore not regulated or considered hazardous for transportation.

Features:

- High operating temperatures
- Easy 1:1 mix ratio
- Low Viscosity
- Flexible
- Deep section curing (beyond 1-2 inches)
- Solvent free

Benefits:

- Good protection in extreme environmental applications
- Simple to use
- Dispenses and pours easily without air bubbles
- Low stress on components and vibration resistant
- No need for multiple pours due to low exotherm
- No by-products released during cure and safe to handle

General Information		
Features	Good Flexibility	
	Good Thermal Stability	
	Low Viscosity	
Uses	Electrical Parts	
	Electrical/Electronic Applications	
Appearance	Red	
Processing Method	Encapsulating	
	Potting	
Thermal	Nominal Value	Unit
CLTE - Flow	2.0E-4	cm/cm/°C
Thermal Conductivity	0.16	W/m/K
Thermoset	Nominal Value	Unit
Thermoset Mix Viscosity (25°C)	7100	cP
Additional Information	Nominal Value	Unit
Operating Temperature	-65.0 to 300	°C
Uncured Properties	Nominal Value	Unit
Color		
-- 1	Clear/Transparent	

-- 2	Red	
Mix Ratio by Weight (PBW)		
Part A	1.0	
Part B	1.0	
Mix Ratio by Volume (PBV)		
Part A	1.0	
Part B	1.0	
Density		
25°C 3	1.03	g/cm ³
25°C 4	1.04	g/cm ³
Viscosity		
25°C 5	6.5	Pa·s
25°C 6	7.5	Pa·s
Curing Time		
150°C	0.33	hr
100°C	1.0	hr
65°C	2.0 to 4.0	hr
25°C	24 to 48	hr
Shelf Life	6	month
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	30	
Tensile Strength	1.03	MPa
Tensile Elongation at Break	250	%
Tear Strength	3.50	kN/m
Electric Strength	18	kV/mm
Relative Permittivity (100 Hz)	3.10	
Volume Resistivity (25°C)	1.0E+14	ohms·cm
NOTE		
1.	Part B	
2.	Part A	
3.	Part B	
4.	Part A	
5.	Part B	
6.	Part A	

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