

Epoxies, Ect. 20-1640

Silicone
Epoxies, Etc.

Message:

20-1640 is a two component silicone elastomer. When cured, this material forms a soft and highly flexible electrically insulating package. 20-1640 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. 20-1640 is formulated without solvents or other toxic materials. It is therefore not regulated or considered hazardous for transportation.

Features:

- Flexible
- Deep section curing (beyond 1-2 inches)
- High operating temperature
- Solvent free

Benefits:

- Low stress on components and vibration resistant
- No need for multiple pours due to low exotherm
- Good protection in extreme environmental applications
- No by-products released during cure and safe to handle

General Information		
Features	Electrically Insulating	
	Good Flexibility	
	Soft	
Uses	Electrical Parts	
	Electrical/Electronic Applications	
	Electronic Insulation	
Appearance	White	
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)	50000	cP
Additional Information	Nominal Value	Unit
Operating Temperature	-65.0 to 235	°C
Uncured Properties	Nominal Value	Unit
Color		
-- 1	Clear/Transparent	
-- 2	White	
Mix Ratio by Weight (PBW)		

Part A	100	
Part B	10	
Density		
25°C ³	0.968	g/cm ³
25°C ⁴	1.54	g/cm ³
25°C ⁵	1.60	g/cm ³
Viscosity		
25°C ⁶	0.10	Pa·s
25°C ⁷	150	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
Pot Life ⁸ (25°C)	60	min
Shelf Life	6	month
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore A)	34	
Tensile Strength	1.21	MPa
Tensile Elongation at Break	430	%
Tear Strength	3.24	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.	Mixed	
5.	Part A	
6.	Part B	
7.	Part A	
8.	100 grams	

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