

# Epoxies, Ect. 20-1710

Silicone Gel

Epoxies, Etc.

## Message:

The 20-1700 Series of silicones are soft, clear silicone elastomeric gels. They are designed for electronic potting applications. The 20-1700 Series offer excellent electrical properties and their soft cushioning provide vibration and thermal shock protection. They are also outstanding at providing protection from moisture, dust and other environmental contaminants. Due to their excellent electrical properties, dielectric strength, and resistivity the 20-1700 Series are used to encapsulate electronic components, junction boxes, power modules and LED's. The 20-1700 Series are formulated without solvents or other toxic materials. They are not regulated or considered hazardous for transportation.

Features:

- Easy 1:1 mix ratio
- Soft
- Easy to penetrate and remove
- Solvent free
- Fast Cure
- Excellent electrical properties

Benefits:

- Simple to use
- Low stress on components and vibration resistant
- Repairs or removal of components saves money
- Low toxicity
- Improves productivity
- Extends life of electronic assemblies

General Information		
Features	High Clarity	
	Low to No Water Absorption	
	Low Toxicity	
	Soft	
Uses	Electrical Parts	
	Electrical/Electronic Applications	
	LEDs	
Appearance	Clear/Transparent	
Processing Method	Encapsulating	
	Potting	
Hardness	Nominal Value	
Hardness - Shore A	Soft Gel	
Operating Temperature	-55.0 to 200	°C
Thermal	Nominal Value	Unit
Thermal Conductivity	0.16	W/m/K
Uncured Properties	Nominal Value	Unit
Color		

-- 1	Clear/Transparent	
-- 2	Clear/Transparent	
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 <sup>3</sup>	0.978	g/cm <sup>3</sup>
25°C <sup>4</sup>	0.978	g/cm <sup>3</sup>
Viscosity		
25°C <sup>5</sup>	6.5	Pa·s
25°C <sup>6</sup>	6.5	Pa·s
Curing Time		
60°C	0.17	hr
25°C	12	hr
Pot Life (25°C)	25	min
Shelf Life	6	month
Cured Properties	Nominal Value	Unit
Electric Strength	18	kV/mm
Relative Permittivity (60 Hz)	2.70	
Volume Resistivity (25°C)	1.0E+15	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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