

20-1710

Soft, Extended Cure, Potting and Encapsulating Silicone Gel

DESCRIPTION:

20-1710 is a soft, clear silicone elastomeric gel, designed for electronic potting applications.

20-1710 offers excellent electrical properties, and its soft cushioning provides vibration and thermal shock protection. It's outstanding at providing protection from moisture, dust and other environmental contaminants.

Due to its excellent electrical properties, dielectric strength, and resistivity 20-1710 is used to encapsulate electronic components, junction boxes, power modules and LED's.

20-1710 is formulated without solvents or other toxic materials, and is not regulated or considered hazardous for transportation.

20-1710 is part of the 20-1700 series of potting and encapsulating silicone gels.

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

TYPICAL SPECIFICATIONS:

Viscosity, 25°C, cps	
Resin (Part A)	6,500
Activator (Part B)	6,500
Mix Ratio, (Resin:Activator)	
By Volume	1:1
By Weight	1:1
Color	
Resin (Part A)	Clear
Activator (Part B)	Clear
Hardness, Shore A	Soft Gel
Operating Temperature Range, °C	-55 to +200
Pot Life, 25°C, 100 grams	25 minutes
Specific Gravity, 25°C	
Resin (Part A)	0.98
Activator (Part B)	0.98

Thermal Conductivity, W/m-K	0.16
Volume Resistivity, ohm-cm, 25°C	1×10^{15}
Dielectric Constant, 60 Hz	2.7
Dielectric Strength, kV/mil	18

INSTRUCTIONS FOR USE:

1. By weight or volume, mix 1 part base silicone to 1 part activator. Mix uniformly, scrap sides and bottom of mixing container. Do not whip air into mixture.
2. De-air by pulling vacuum on mixed material.
3. Apply mixed material and follow one of the cure schedules
 - a) 25°C 12 hours
 - b) 60°C 10 minutes

SUBSTRATE NOTES:

Certain materials may inhibit the cure of this product. Materials that should be avoided include sulfur containing materials, nitrogen containing materials (i.e. amines) some silicones (tin cured), and butyl and chlorinated rubbers. If in doubt, a patch test should be done.

STORAGE, HANDLING & SAFETY:

When stored in the original, unopened container, in a dry location at 25°C, 20-1710 has a shelf life of approximately 12 months.

Please read the Safety Data Sheet before using this or any other chemical.

AVAILABILITY:

Using the popular TriggerBond® cartridges will add convenience and reliability. 20-1710 is available in quart, gallon, 5-gallon pail, and 55-gallon drums. It is also available in the popular TriggerBond® 50ml, 200ml, and 400ml cartridges.

IMPORTANT:

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