

20-1625

OPTICALLY CLEAR SILICONE POTTING AND ENCAPSULATING COMPOUND

DESCRIPTION:

20-1625 is a low viscosity and easy to use 1:1 ratio silicone system. It is designed for applications that require clarity and protection from shock and vibration. 20-1625 provides good heat resistance and is flame retardant.

20-1625 is formulated without solvents or other toxic materials. It is therefore not regulated or considered hazardous for transportation.

FEATURES:

- Easy 1:1 mix ratio
- Soft
- Excellent electrical properties
- Solvent free
- Optically clear

BENEFITS:

- Simple to use
- Low stress on components and vibration resistant
- Extends life of electronic assemblies
- No by-products released during cure and safe to handle
- Easy component identification

TYPICAL SPECIFICATIONS:

| | |
|---|-----------------------|
| Color | |
| Resin (Part A) | Clear |
| Activator (Part B) | Clear |
| Viscosity, @ 25°C, cps | |
| Resin (Part A) | 4,500 |
| Activator (Part B) | 4,000 |
| Specific Gravity, @ 25°C | |
| Resin (Part A) | 0.98 |
| Activator (Part B) | 0.98 |
| Working Time, 25°C | 20 minutes |
| Hardness, Shore A | 25 |
| Thermal Conductivity, btu·in/hr·ft ² ·°F | 1.1 |
| Coefficient of Thermal Expansion, per °C | 27 x 10 ⁻⁵ |
| Volume Resistivity, ohm·cm, 25°C | 1 x 10 ¹⁵ |
| Dielectric Constant @ 60 Hz | 2.7 |
| Dielectric Strength, V/mil | 500 |
| Operating Temperature, °C | -55 to +200 |

CURE SCHEDULE

| | |
|---------|------------|
| at 25°C | 3-4 hours |
| at 60°C | 60 minutes |

INSTRUCTIONS FOR USE:

1. By weight or volume, mix 1 part base silicone to 1 part activator. Mix uniformly, scraping sides and bottom of mixing container. Do not whip air into mixture.
2. De-air by pulling vacuum on mixed material.

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:

When stored in the original, unopened container, in a dry location at 65° - 80°F, the 20-1625 has a shelf life of approximately six months.

PACKAGING RECOMMENDATION:

Using the popular TriggerBond® cartridges will add convenience and reliability.

AVAILABILITY:

20-1625 is available in quart, gallon, five gallon pail, and 55 gallon drums. The silicone system is also available in the popular TriggerBond® 50ml, 200ml, and 400 ml cartridges.

IMPORTANT:

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