

Epoxies, Ect. 20-1715

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 | |
| Uses | Electrical Parts | |
| | Electrical/Electronic Applications | |
| | LEDs | |
| Appearance | Clear/Transparent | |
| Processing Method | Encapsulating | |
| | Potting | |
| Hardness | Nominal Value | |
| Hardness - Shore A | Firm 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 3 | 0.978 | g/cm³ |
| 25°C 4 | 0.978 | g/cm³ |
| Viscosity | | |
| 25°C 5 | 6.0 | Pa·s |
| 25°C 6 | 6.5 | Pa·s |
| Curing Time | | |
| 60°C | 0.17 | hr |
| 25°C | 12 | hr |
| Pot Life (25°C) | 20 | 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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