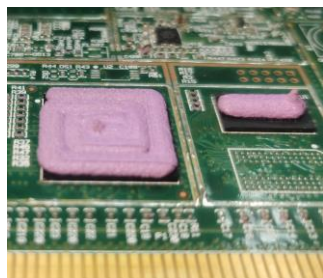




Tflex™ CR900

2-Part Dispensable Gap Filler Preliminary datasheet



PRODUCT DESCRIPTION

Tflex™ CR900 is a soft, compliant, very high thermal conductivity, two-part dispensable gap filler providing a low thermal resistance and high reliability. This dispensable gap filler minimizes stress on components during assembly while providing the reliability of a traditional thermal pad.

Tflex™ CR900 is ideal for application where large gap tolerances are present, meeting vertical shock and vibrate requirements, typical of stringent industry requirements. The 1:1 mix is easily dispensable through a wide variety of off the shelf dispensing equipment. The experts at Laird can help design the system that is right for you.

FEATURES AND BENEFITS

- Thermal Conductivity 9.2W/mK
- Dispensable and Compliant
- Easily reworkable
- Ideal for large gaps
- Meets RoHS and REACH requirements

APPLICATIONS

- Telecom base stations
- Graphic chips
- Microprocessors
- High-power automotive electronic controls

MAIN PROPERTIES

| TYPICAL PROPERTIES | VALUE | TEST METHOD |
|---|---|-----------------------|
| Composition | Two-part ceramic filled dispensable silicone gap filler | |
| Color | Part A: Red / Part B: Purple | Visual |
| Mix ratio | 1:1 | |
| Flow rate component A or B (30cc cartridge no tip at 90 psi) | 150g/min | Laird Method |
| Shelf Life | 5 months | |
| Cure condition | 4 hours @ 80°C 16 hours @ 23°C | Laird Method |
| PROPERTIES AFTER CURING | | |
| Thermal Conductivity | 9.2 W/mK | Hot Disk |
| Density | 3.3 g/cc | Helium Pycnometer |
| Hardness (3sec) | 80 Shore 00 | ASTM D2240 |
| Outgassing TML (weight) | 0.49% | ASTM E595 |
| Min. bond line thickness | 250 µm | Laird lab |
| Operating Temperature Range | -55°C to 180°C | |
| Rth@ 1. 5mm, 50°C, 40psi | 0.27 °C-in²/W | ASTM D5470 (Modified) |
| Dielectric Breakdown Voltage@1mm | 5 KV AC | ASTM D149 |
| UL Flammability Rating | V-0 | UL #E180840 |

American: +1.866.928.8181

Europe: +44.8031.2460.0

Asia: +86.755.2714.1166

www.laird.com

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PACKAGING

| TYPE | FILL VOLUME | FILL WEIGHT |
|---|-------------|-------------|
| 50cc dual plastic cartridge (2x25cc) | 45 cc | 150 g |
| 200cc dual plastic cartridge (2x100cc) | 183 cc | 610 g |
| 400cc dual plastic cartridge (2x200cc) | 365 cc | 1225 g |
| 600cc separate plastic cartridges (2x300cc) | 600 cc | 1980 g |

SAMPLING

| TYPE | FILL VOLUME | FILL WEIGHT |
|--------------------------------------|-------------|-------------|
| 50cc dual plastic cartridge (2x25cc) | 45 cc | 150 g |