



PRODUCT DESCRIPTION

At 6.4 W/m-K thermal conductivity, Tflex™ CR607 is at the forefront of thermal performance for a two-part, cure in place dispensable gap filler. This dispensable gap filler minimizes stress on components during assembly while providing the reliability of a traditional thermal pad. Tflex™ CR607 has been designed for reliability, intended to pass stringent vertical shock and vibration requirements of the automotive industry.

The 1:1 mix is dispensable through a wide variety of dispensing equipment. It is an A+B putty material that cures in place after dispensing and mixing to perfectly fill the gap. The experts at Laird can help design the system that is right for you.

Tflex™ CR607 is a soft, compliant, high thermal conductivity dispensable gap filler providing the lowest thermal resistance and highest reliability available.

FEATURES AND BENEFITS

- Thermal Conductivity 6.4W/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: Blue Part B:White | Visual |
| Flow rate (75cc taper tip, 0.125" orifice, at 90psi) | 70 g/min | Laird Method |
| Pot life | 1 hour minimum | Laird Method |
| Mix ratio | 1:1 | |
| Shelf Life | 6 months | Laird Method |
| Cure conditions | 24 hours at 25°C | Laird Method |
| PROPERTIES AFTER CURING | | |
| Thermal Conductivity | 6.4 W/mK | Hot Disk |
| Density | 3.43 g/cc | Helium Pycnometer |
| Hardness (30sec) | 70 Shore 00 | ASTM D2240 |
| Outgassing TML (weight) | 0.11 % | ASTM E595 |

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THR-DS-Tflex™ CR607_210720

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| PROPERTIES AFTER CURING | CONTINUED | |
|---|-------------------------------|-----------------------|
| TYPICAL PROPERTY | VALUE | TEST METHOD |
| Minimum Bond Line Thickness | 150 μm | Laird Method |
| Operating Temperature Range | -55°C to 200°C | |
| Thermal Resistance at 1mm, 50°C, 345kPa | 2.15 °C·cm ² /W | ASTM D5470 (Modified) |
| Dielectric Breakdown Voltage at 2mm | 6 kV AC | ASTM D149 |
| UL Flammability Rating | V-0 (pending) | UL |
| Volume Resistivity | 2.5 x 10 ¹⁴ ohm·cm | ISO 14309 |

PACKAGING

| TYPE | FILL VOLUME | FILL WEIGHT |
|--|-------------|-------------|
| 50cc side-by-side cartridge (2x25cc) | 48 cc | 160 g |
| 200cc side-by-side cartridge (2x100cc) | 215 cc | 730 g |
| 400cc side-by-side cartridge (2x200cc) | 394 cc | 1340 g |
| 1-gallon pail x2 | 4070 cc | 14kg x2 |
| 5-gallons pail x2 | 5820 cc | 20kg x2 |

SAMPLING

| TYPE | FILL VOLUME | FILL WEIGHT |
|--------------------------------------|-------------|-------------|
| 50cc side-by-side cartridge (2x25cc) | 48cc | 160 g |

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