

# THERM-A-GAP® GEL 45

## 4.5 W/m-K High-Performance, Good Flow Rate Fully Cured Dispensable Gel

THERM-A-GAP GEL 45 is part of the Parker Chomerics family of fully cured, one component silicone-based, dispensable thermal interface materials.

With a 4.5 W/m-K thermal conductivity, it is designed for high performance heat transfer from electronics components to cooling features and meant to be used across industries and applications.

As with all Parker Chomerics thermal gels, it is optimized for automated dispensing at various packaging sizes while retaining properties for easy rework and field repair situations. With a high flow rate and high thermal conductivity, THERM-A-GAP GEL 45 lends itself to high volume applications.

The paste-like consistency of THERM-A-GAP GEL 45 enables very tightly controlled dispensing and accurate material placement during assembly. It requires low compressive force to deflect under assembly pressure, subjecting components, solder joints and PCB leads to minimal stress.

### Product Features

- Thermal conductivity: 4.5 W/m-K
- High flow rate: 55 g/min
- No secondary curing required
- Low thermal impedance
- Very low compression force
- Reworkable
- Single component
- Room temperature storage

### Typical Applications

- Telecommunications equipment
- Consumer electronics
- Computing components (CPUs, GPUs, memory)
- Power electronics and modules
- Energy storage devices
- Automotive control units and sensors



# THERM-A-GAP GEL 45 PRODUCT INFORMATION

| Typical Properties† |  | GEL 45                  | Test Methods            |
|---------------------|--|-------------------------|-------------------------|
| Physical            | Color  | Black                   | Visual                  |
|                     | Flow Rate, grams/min - 30cc syringe with no tip attachment 0.100" orifice, 90psi (621 kPa) | 55                      | Chomerics               |
|                     | Specific Gravity   | 3.1                     | ASTM D792               |
|                     | Typical Minimum Bond Line Thickness, in (mm)   | 0.0035 (0.089)          | Chomerics               |
| Thermal             | Thermal Conductivity, W/m-K  | 4.5                     | ASTM D5470              |
|                     | Heat Capacity, J/g-K   | 1                       | ASTM E1269              |
|                     | Operating Temperature Range, °F (°C)   | -67 to 392 (-55 to 200) | Chomerics               |
| Electrical          | Dielectric Strength, Vac/mil (kVac/mm)   | 200 (8.0)               | ASTM D149               |
|                     | Volume Resistivity, ohm-cm   | 10 <sup>14</sup>        | ASTM D257               |
|                     | Dielectric Constant @ 1000 kHz at 0.030" (0.76mm) thick                                    | 9.0                     | ASTM D150               |
|                     | Dissipation Factor @ 1000 kHz at 0.030" (0.76mm) thick                                     | 0.040                   | Chomerics               |
| Regulatory          | Flammability Rating (See UL File E140244 for Details)                                      | V-0                     | UL 94                   |
|                     | RoHS Compliant   | Yes                     | Chomerics Certification |
|                     | Outgassing, % TML (% CVCM)   | 0.23 (0.06)             | ASTM E595               |
|                     | Shelf Life, months from date of manufacture  | 18                      | Chomerics               |
|                     | Storage Conditions, °F (°C) @ 50% Relative Humidity  | 50 to 90 (10 to 32)     | Chomerics               |

† Typical properties: these are not to be construed as specifications.

# THERM-A-GAP GEL 45 ORDERING INFORMATION

| Part Number      | Typical Standard Fill Volume (cc) | Typical Standard Fill Mass (g) | Packaging Description             |
|------------------|-----------------------------------|--------------------------------|-----------------------------------|
| 65-00-GEL45-0010 | 10                                | 31                             | 10cc Luer-Lock™ manual syringe    |
| 65-02-GEL45-0030 | 27                                | 84                             | 30cc EFD plastic cartridge        |
| 65-02-GEL45-0180 | 150                               | 465                            | 6oz (180cc) EFD plastic cartridge |
| 65-00-GEL45-0300 | 300                               | 930                            | 12oz (300cc) aluminum cartridge   |
| 65-1P-GEL45-2500 | 2,500                             | 7,750                          | 1 U.S. gallon pail                |
| 65-5P-GEL45-8065 | 8,065                             | 25,000                         | 5 U.S. gal. pail                  |



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