

THERM-A-FORM™ CIP35

Thermally Conductive Cure-in-Place Compound



Customer Value Proposition:

Parker Chomerics THERM-A-FORM™ CIP35 is a thermally conductive silicone elastomer dispensable thermal interface material with a 3.5W/m-K thermal conductivity.

CIP35 is designed to cool electronics without excessive compressive force in sensitive cooling applications.

This versatile liquid can be hand or robotically dispensed and then cured into complex geometries for cooling of multi-height components on a printed circuit board (PCB) without the expense of a molded sheet.

CIP35 is available in ready-to-use cartridge systems, eliminating weighing, mixing, and degassing procedures.

This product has a thermal conductivity of 3.5 W/m-K and a hardness of 55 Shore A.



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Features and Benefits:

- Dispensable form-in-place gap filling, potting, sealing, and encapsulating
- Excellent blend of high thermal conductivity, flexibility, and ease of use
- Conformable to irregular shapes without excessive force on components
- Ready-to-use cartridge system eliminates weighing, mixing, and de-gassing steps
- Variety of kit sizes and configurations available to suit any application (handheld twin-barrel cartridges, SEMCO® tubes, and pneumatic applicators)
- Vibration damping
- Long shelf life, no settling or degradation of cure
- Sag resistance, maintains shape during cure



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THERM-A-FORM CIP35 - Product Information

| THERM-A-FORM CIP35 Cure-In-Place Thermal Compound | | | |
|---|--|--|---------------------------------------|
| Typical Properties | | CIP35 | Test Method |
| Physical | Color | Green | -- |
| | Binder | Silicone | -- |
| | Filler | Aluminum Oxide / Boron Nitride | --- |
| | Number of Components | 2 part | --- |
| | Mix Ratio | 1 : 1 | --- |
| | Specific Gravity | 2.87 | ASTM D792 |
| | Hardness, Shore A | 55 | ASTM D2240 |
| | Viscosity, poise | 5000 | Mod. ASTM D2196 |
| | Pot Life, minutes | 100 | Time to 2X starting viscosity at 23°C |
| | Cure Cycles - for set up | 30 min @ 150°C 180 min @ 100°C 48 hrs @ 23°C | Chomerics |
| Thermal | Thermal Conductivity, W/m-K | 3.5 | ASTM D5470 |
| | Operating Temperature Range, °F [°C] | -67 to 392 [-55 to 200] | ASTM D5470 |
| Electrical | Dielectric Strength, Kvac/mm (Vac/mil) | 10 (250) | ASTM D149 |
| | Volume Resistivity, ohm-cm | 1.0 x 10 ¹⁴ | ASTM D257 |
| Regulatory | RoHS Compliant | Yes | Chomerics |
| | Outgassing, %TML [%CVCM] | 0.22 [0.06] | ASTM E595 |
| | Flammability Rating (file E140244) | UL94-V0 | UL 94 |
| | Shelf Life | 12 months | Chomerics |

Ordering Information

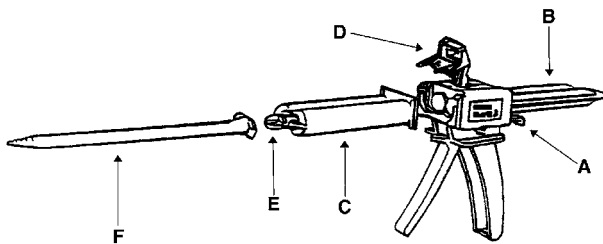


Figure 1: Typical Applicator

| Part Number | Volume (mass) | Description |
|-------------------|---------------|--|
| 65-00-CIP35-0045 | 45 cc | 1:1 Dual element Cartridge |
| 65-00-CIP35-0200 | 200 cc | |
| 65-00-CIP35-0400 | 400 cc | |
| 65-00-CIP35-1200 | 1200cc | (2) 600cc SEMCO Cartridges |
| 65-1P-CIP35-5600 | 5600cc | (2) 1 Gallon Pails, each side has 8kg |
| 65-5P-CIP35-10452 | 10,452cc | (2) 5 Gallon Pails, each pail has 15kg |

Mixpac® Dispensing Systems are available from multiple sources. When contacting Mixpac® equipment suppliers, reference cartridge volume (cc) and dual element cartridge A:B mix ratio. Refer to table for volume and mix ratio information.

MIXPAC is a trademark of ConProTec, Inc.
SEMCO is a trademark of PPG Aerospace.

www.parker.com/chomerics

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