



# TG4040-D Silicone Thermal Putty

Version 1.240919



## Silicone Thermal Putty

TG4040-D is an ultra-conformable, one part, high-performance silicone putty. It is designed for when heat transfer is needed between delicate components where the pressure must be minimised. TG-4040D is designed to fill gaps from 0.25 – 8mm with little or no stress generated. The silicone based formulation will adhere to all surfaces, such as metal housings, ceramic and plastic IC packages and FR4 boards to give a low thermal resistance path for heat transfer.

TG-4040-D is available in syringes (90g and 165g) and pots (1kg).

## Features

- Smooth surface & low contact resistance
- Usable over a wide temperature range
- Electrical insulation
- High breakdown voltage
- Complies with UL standards

## Applications

Electronic components: IC, CPU, MOS, LED, M/B, P/S, Heat Sink, LCD, TV, Notebook, PC, PC Telecom Device, Wireless Hub, etc.  
DDR II Module, DVD Applications, Hand-set applications, etc.

## Properties

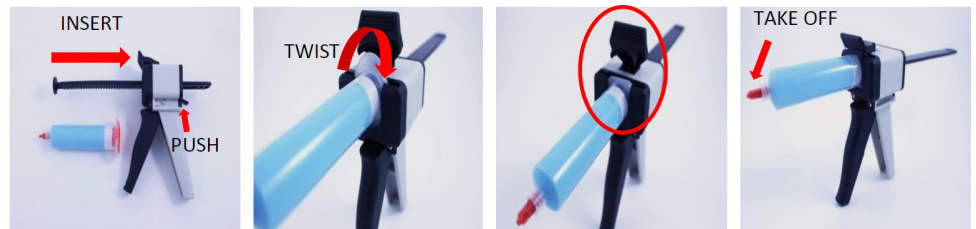
- ✓ REACH Compliant
- ✓ ROHS Compliant

| Property             | TG4040-D         | Unit                | Tolerance | Test Method |
|----------------------|------------------|---------------------|-----------|-------------|
| Colour               | Blue             | -                   | ±0.3      | Visual      |
| Viscosity 0.5rpm     | 3,000            | Pa · s              | -         | Brookfield  |
| Density              | 3.2              | g/cm <sup>3</sup>   | -         | ASTM D792   |
| Thermal Conductivity | 3.0              | W/mk                | -         | ASTM D5470  |
| Volume Resistivity   | 10 <sup>13</sup> | Ohm cm <sup>1</sup> | -         | ASTM D257   |
| Working Temperature  | -50 to 180       | °C                  | -         | -           |

## Reliability - Thermal Impedance

| Time        | Initial | 200 Hr | 400 Hr | 700 Hr | 1000 Hr |
|-------------|---------|--------|--------|--------|---------|
| 125°C Aging | 0.058   | 0.059  | 0.060  | 0.059  | 0.060   |
| 160°C Aging | 0.058   | 0.059  | 0.060  | 0.060  | 0.0592  |
| 85°C/85% RH | 0.058   | 0.59   | 0.060  | 0.059  | 0.060   |

## Operation Manual-Gel Gun



STEP1-Push the latch and insert the stick

STEP 2-Put the tube in and twist

STEP3-Close the cover

STEP4-Take off the plug

\* Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

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