

# 2-PART SILICONE GAP FILLER TDG-T-SI-2C HALA

dispensable / 2 parts / Low Volatile Siloxanes (LV) / Form-in-Place

TDG-T-SI-2C is a 2-part dispensable low volatile silicone gap filler which is filled with thermally conductive fillers. After curing under heat the system remains elastic. It is characterised by very good dielectric and mechanic properties and is suited for compensating extreme tolerances and spaces at non-coplanar systems. Its thixotropic behaviour allows for a definite placement and cure-in-place. It has a natural low level tack that enhances a good thermal contact. Due to its negligible and controlled volatile content it is suited for environments where volatile silicones and paint wetting impairment are critical.



Release 3 / 2019

## PROPERTIES

- Dispensable 2-part silicone
- Low volatile siloxane content (LV)
- No paint wetting impairment
- Thermal conductivity: 3.0 W/mK
- Remains elastic after polymerisation
- Zero stress on components
- Heat accelerated curing
- Shock absorbing

## AVAILABILITY

- Cartridges 50 ml (2 x 25 ml)
- Cartridges 2 x 600 ml
- Pails 20 or 25 kg
- On request

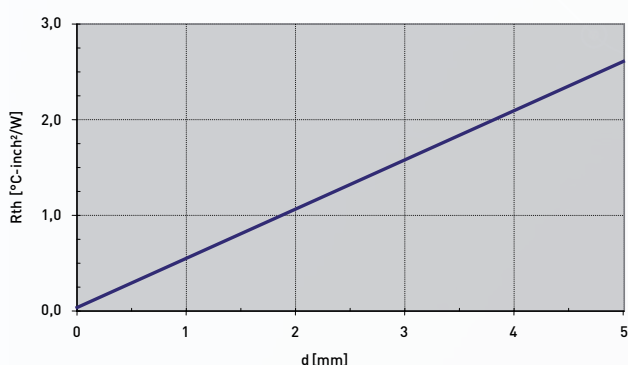
## APPLICATION EXAMPLES

Thermal link of:

- FPBGA
  - Capacitors
  - Heat Pipes
  - BGA
- For use in Automotive applications  
/ Telecommunication / Multimedia / Industrial PCs

| Property  | Unit              | A Part               | B Part               |
|---|-------------------|----------------------|----------------------|
| <b>Material</b>   |                   | Silicone             | Silicone             |
| Colour  |                   | Blue                 | White                |
| Density @ 25 °C   | g/cm <sup>3</sup> | 2.75                 | 2.75                 |
| Mixing Ratio  | Weight or Volume  | 1 : 1                | 1 : 1                |
| Hardness  | Shore 00          | 55                   | 55                   |
| Viscosity<br>(Brookfield @ 10 rpm, 25 °C)                         | Pas               | 290                  | 260                  |
| Viscosity (mixed)<br>(Brookfield @ 10 rpm, 25 °C)                 | Pas               | 275                  | 275                  |
| Pot Life @ 25 °C and 65 % RH<br>(Time for viscosity to double)    | min               | > 120                | > 120                |
| Curing Time @ 25 °C / 100 °C                                      |                   | < 15h / 15 - 30 min  | < 15h / 15 - 30 min  |
| Shelf Life (from Date of Manu-<br>facturing, unopened, @ < 35 °C) | Months            | 6                    | 6                    |
| No Paint Wetting Impairment<br>Substances (PWIS) <sup>1</sup>     |                   | Passed               | Passed               |
| Flammability  | UL 94             | V0                   | V0                   |
| RoHS Conformity   | 2011 / 65 / EU    | Yes                  | Yes                  |
| <b>Technical</b>  |                   |                      |                      |
| Thermal Conductivity <sup>2</sup>                                 | W/mK              | 3.0                  | 3.0                  |
| Operating Temperature   | °C                | - 50 to + 150        | - 50 to + 150        |
| Dielectric Strength   | kV/mm             | > 10                 | > 10                 |
| Volume Resistivity  | Ohm-cm            | 1 x 10 <sup>10</sup> | 1 x 10 <sup>10</sup> |

Measurement technique according to: <sup>1</sup>P-VW 3-10.7 57650 Temp. Test, <sup>2</sup>ASTM D 5470. All data without warranty and subject to change. Please contact us for further data and information.



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