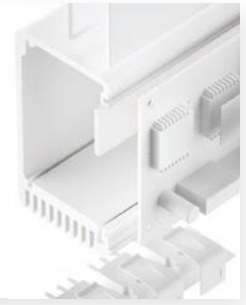


# SILICONE-FREE GAP FILLER PAD TGF-Y-NS HALA

siloxane-free, soft acrylate

TGF-Y-NS is an electrically insulating extremely thermally conductive silicone-free gap filler. It is ideal for use in applications where thermal transfer over large gaps caused e.g. by big tolerances or different stack up heights must be achieved. The acrylate based elastomer does not contain any volatile siloxanes which are inevitably emitted by silicones. Due to the specific formulation and filling with ceramic particles the material has an extremely high thermal conductivity. Through its softness the material perfectly mates to irregular surfaces thus filling gaps and operates at low pressure. By its use the total thermal resistance is minimised. The natural tackiness of the material allows for an easy and reliable pre-assembly.



Release 09 / 2026

Technical Data Sheet

## PROPERTIES

- ☐ Silicone-free acrylate
- ☐ No emission of volatile siloxanes
- ☐ Soft and compliant
- ☐ Thermal conductivity: 8.0 W/mK
- ☐ Shock absorbing
- ☐ Easy mounting through self-tackiness

## AVAILABILITY

- ☐ Sheet 400 x 200 mm
- ☐ Double-side tacky (TGF-YXXX-NS)
- ☐ Die cut parts
- ☐ Kiss cut parts on sheet

## APPLICATION EXAMPLES

Thermal link of:

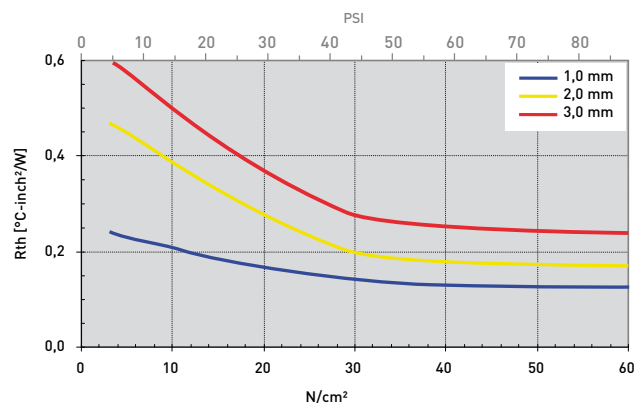
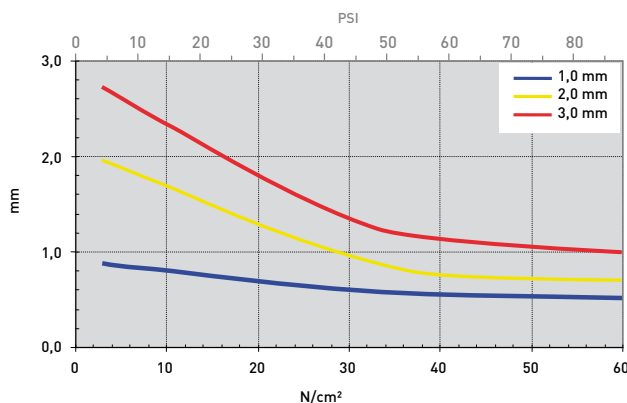
- ☐ SMD packages
  - ☐ Through-hole vias
  - ☐ RDRAMs memory modules
  - ☐ Electronic parts to heat pipes
- For use in Automotive applications / Laptops / Medicine engineering / Industrial PCs

| PROPERTY                                     | UNIT                         | TGF-Y1000-NS         | TGF-Y2000-NS         | TGF-Y3000-NS         |
|----------------------------------------------|------------------------------|----------------------|----------------------|----------------------|
| <b>MATERIAL</b>                              |                              |                      |                      |                      |
| Colour                                       |                              | White                | White                | White                |
| Specific Gravity                             | g/cm <sup>3</sup>            | 3.4                  | 3.4                  | 3.4                  |
| Thickness                                    | mm                           | 1.0 ±0.10            | 2.0 ±0.20            | 3.0 ±0.30            |
| Hardness                                     | Shore 00                     | 70                   | 70                   | 70                   |
| Flammability (Equivalent)                    | UL 94                        | V0                   | V0                   | V0                   |
| RoHS Conformity                              | 2015 / 863 / EU              | Yes                  | Yes                  | Yes                  |
| <b>THERMAL</b>                               |                              |                      |                      |                      |
| Resistance <sup>1</sup> @ 60 PSI @ Thickness | °C-inch <sup>2</sup> /W (mm) | 0.13 [0.55]          | 0.18 [0.75]          | 0.25 [1.13]          |
| Resistance <sup>1</sup> @ 30 PSI @ Thickness | °C-inch <sup>2</sup> /W (mm) | 0.17 [0.72]          | 0.28 [1.30]          | 0.37 [1.80]          |
| Resistance <sup>1</sup> @ 10 PSI @ Thickness | °C-inch <sup>2</sup> /W (mm) | 0.22 [0.83]          | 0.43 [1.80]          | 0.55 [2.52]          |
| Thermal Conductivity <sup>1</sup>            | W/mK                         | 8.0                  | 8.0                  | 8.0                  |
| Operating Temperature Range                  | °C                           | - 40 to +120         | - 40 to +120         | - 40 to +120         |
| <b>ELECTRICAL</b>                            |                              |                      |                      |                      |
| Dielectric Strength                          | kV / mm                      | 7.8                  | 7.8                  | 7.8                  |
| Volume Resistivity                           | Ohm - cm                     | 1 x 10 <sup>11</sup> | 1 x 10 <sup>11</sup> | 1 x 10 <sup>11</sup> |

Measurement technique according to: 'ASTM D 5470. Typical, non-binding values. Not intended for specification purposes. Subject to technical changes. Please contact us for further information.

Thicknesses: 0.5 mm / 1.0 mm / 1.5 mm / 2.0 mm / 2.5 mm / 3.0 mm / 3.5 mm / 4.0 mm / 4.5 mm / 5.0 mm

mm vs. N/cm<sup>2</sup> (PSI) / Rth vs. N/cm<sup>2</sup> (PSI)



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