FACT SHEET

ICT-TC-GFSP-SF-HP-5031

High-performance, silicon-free gap filler pad with 9.00 W/m·K thermal conductivity, excellent insulation, and low outgassing.

5 GAP FILLERS, PADS, SPACERS, SOFT-ULTRA-SOFT GEL SILICONE-FREE

DESCRIPTION

The **ICT-TC-GFSP-SF-HP-5031 Series** is the latest product generation of silicone-free, high-performance, thermally conductive gap filler pads from ICT SUEDWERK. These product series are composed of a silicone-free, resin-based thermoplastic elastomer (TPE).

The **ICT-TC-GFSP-SF-HP-5031 Series** is characterized by very high thermal conductivity of **9.00 W/m·K** combined with outstanding electrical insulation properties, based on advanced composite material technologies, while also maintaining silicone's superior heat resistance. This premium product has no low-molecular siloxane volatilization whatsoever, and very low total volatile gas.

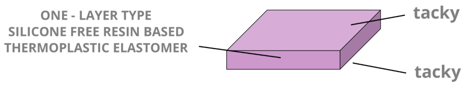
The **ICT-TC-GFSP-SF-HP-5031 Series** is soft, flexible, and exhibits good springback behavior. Its low hardness ensures excellent compressibility, while its stress relaxation properties, low specific weight, and very good price–performance ratio are what make this material stand out.

The **ICT-TC-GFSP-SF-HP-5031 Series** is available in material thicknesses ranging from 0.5 to 10.00 mm. Additional thicknesses are available upon request.

TYPICAL PROPERTIES

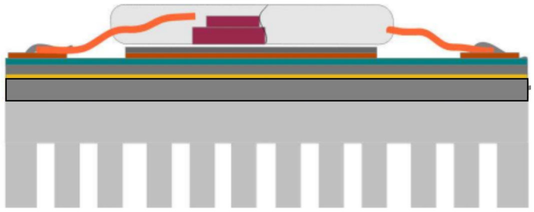
Product Configuration

Material structure

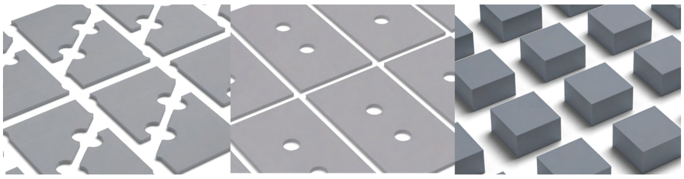


Color	**Pink**
Density	**3.4 g/cm^3**
Thermal conductivity	**9 W/m*K**
Thermal impedance @ 20 psi	**≤ 0.166 C°-in^2/W**
Volume resistivity	**≥ 1,00 × 10^{10} Ω/m**
Dielectric breakdown voltage	**8 kV/mm**
Hardness (Shore 00)	**50**
Compressibility @ 20psi	**35 %**

IMAGES



Product Profile (schematic image)



ICT-TC-GFSP-SF-HP-5031

Image may differ from product

FEATURES

- Made from a silicone-free, resin-based material
- High thermal performance: **9.0 W/m·K thermal conductivity / Rth 0.166 °C·in^2/W (@ 20 psi)**
- Tacky surface for excellent surface wet-out
- Soft and flexible, with very good compressibility
- Effective performance under low contact pressure
- Excellent electrical insulation (UL 94 V-0 certified)
- The ICT-TC-GFSP-SF-HP-5031 Series is environmentally compliant with RoHS 2.0, halogen-free, and REACH standards

DELIVERY FORMS / APPLICATIONS

- Applicable to optical and sensitive electronic components
- Optoelectronic industry applications
- Viscous surface for enhanced adhesion
- HDDS / Netcom products
- Electric vehicles (EVs) and new energy battery applications
- 5G base stations and infrastructure
- Wearable devices and related electronics

ICT4TIM Partners

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