

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

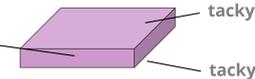
The **ICT-TC-GFSP-SF-HP-5031 Series** is the latest product generation of silicone-free, high-performance, thermally conductive gap filler pads from ICT SUEDWERK. These product series are composed of a silicone-free, resin-based thermoplastic elastomer (TPE).

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.

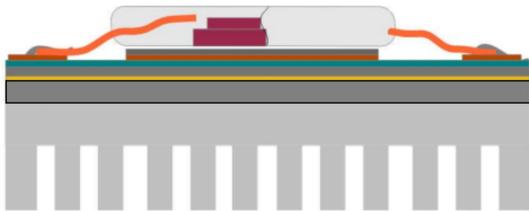
The **ICT-TC-GFSP-SF-HP-5031 Series** is soft, flexible, and exhibits good springback behavior. Its low hardness ensures excellent compressibility, while its stress relaxation properties, low specific weight, and very good price-performance ratio are what make this material stand out.

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
ONE-LAYER TYPE SILICONE FREE RESIN BASED THERMOPLASTIC ELASTOMER	
Color	Pink
Density	3.4 g/cm ³
Thermal conductivity	9 W/m ² 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)

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-in²/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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