

## FACT SHEET

# ICT-TC-GFSP-SF-EP-5042



Silicone-free premium gap filler pad delivering 17.0 W/m-K thermal conductivity with excellent electrical insulation and very low outgassing.



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

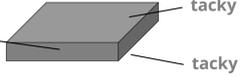
## DESCRIPTION

The **ICT-TC-GFSP-SF-EP-5042 Series** offers the highest thermal conductivity of 17.0 W/m-K within the ICT SUEDWERK silicone-free gap filler pad product line. There are very few comparable silicone-free gap filler pad products on the market that provide such excellent thermal performance in combination with outstanding electrical insulation properties, based on advanced composite technologies. This premium product has no low-molecular siloxane volatilization whatsoever, and very low total volatile gas.

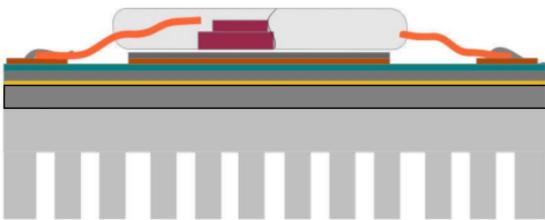
The **ICT-TC-GFSP-SF-EP-5042 Series** is composed of a silicone-free, resin-based thermoplastic elastomer (TPE). This series is also soft and flexible, and exhibits good springback behavior. Its low hardness, good compressibility, and stress relaxation properties, together with low specific weight and a balanced price-performance ratio, complete this excellent premium product series.

The **ICT-TC-GFSP-SF-EP-5042 Series** is available in a wide range of material thicknesses from 0.5 to 10.00 mm. Additional and intermediate thicknesses are available upon request.

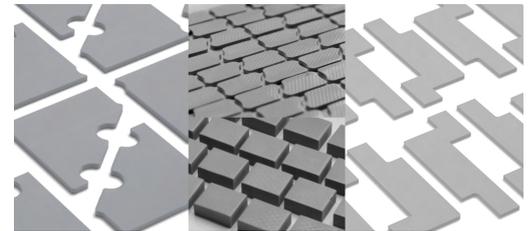
## TYPICAL PROPERTIES

Product Configuration	Material structure
ONE - LAYER TYPE SILICONE FREE RESIN BASED THERMOPLASTIC ELASTOMER	
<b>Color</b>	Gray
<b>Density</b>	3.3 g/cm <sup>3</sup>
<b>Thermal conductivity</b>	17 W/m*K
<b>Thermal impedance @ 20 psi</b>	≤ 0.103 C°-in <sup>2</sup> /W
<b>Volume resistivity</b>	≥ 1,00 × 10 <sup>10</sup> Ω/m
<b>Dielectric breakdown voltage</b>	8 kV/mm
<b>Hardness (Shore 00)</b>	50
<b>Compressibility @ 20psi</b>	28 %

## IMAGES



ICT-TC-GFSP-SF-EP-5042 Profile



ICT-TC-GFSP-SF-EP-5042

Image may differ from product

## FEATURES

- › Made from a silicone-free, resin-based thermoplastic elastomer (TPE)
- › Very high thermal performance: **17.0 W/m-K thermal conductivity / Rth 0.119 °C-in<sup>2</sup>/W (@ 20 psi)**
- › Tacky surface for improved surface contact
- › Soft and flexible, with very good compressibility
- › Effective operation under low contact pressure
- › Excellent electrical insulation (UL 94 V-0 certified)
- › The ICT-TC-GFSP-SF-EP-5042 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 (viscous / tacky surface)
- HDDs and Netcom products
- EV and new energy battery applications
- 5G base stations and infrastructure

ICT4TIM Partners



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