

FACT SHEET

ICT-TC-GFSP-SF-5011



Silicone-free TPE thermal pad with 3.0 W/mK conductivity, excellent electrical insulation, low outgassing, soft and compressible.



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

DESCRIPTION

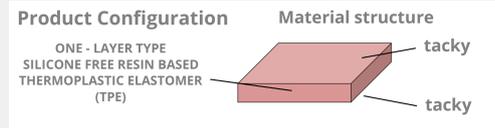
The **ICT-TC-GFSP-SF-5011 Series** is composed of a **silicone-free, resin-based thermoplastic elastomer (TPE)**, offering a **thermal conductivity of 3.00 W/mK** while maintaining excellent **heat resistance** and **electrical insulation properties**. The material shows **low molecular siloxane volatilization** and **low total volatile gas**, ensuring no electrical contact issues or contamination risks.

The **ICT-TC-GFSP-SF-5011 Series** is characterized by very good **thermal conductivity** combined with outstanding **electrical insulation**, enabled by advanced composite material technologies.

The **ICT-TC-GFSP-SF-5011 Series** is soft and flexible, with good **springback behavior**. Its **low hardness** ensures good compressibility, while its **stress relaxation properties**, **low specific weight**, and very good **price-performance ratio** make this material stand out.

The **ICT-TC-GFSP-SF-5011 Series** is available in material thicknesses from **0.5 to 10.0 mm**. Additional thicknesses are available upon request.

TYPICAL PROPERTIES



Color	Red
Density	2.6 g/cm ³
Thermal conductivity	3 W/m ² K
Thermal impedance @ 20 psi	≤ 0.543 C°-in ² /W
Volume resistivity	> 1,00 × 10 ¹¹ Ω/m
Dielectric breakdown voltage	16 kV/mm
Hardness (Shore 00)	60
Compressibility @ 20psi	42 %

IMAGES

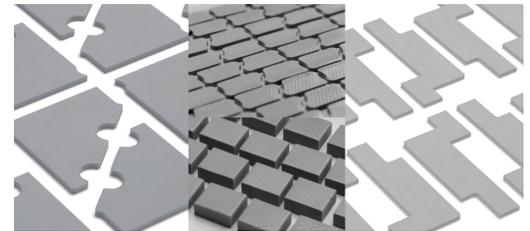
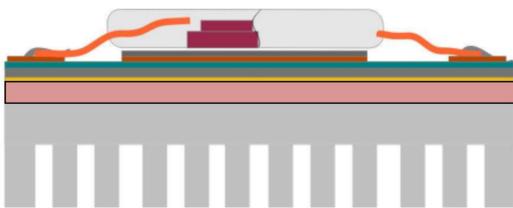


Image may differ from product

FEATURES

- › Made from a silicone-free, resin-based thermoplastic elastomer (TPE)
- › Good thermal conductivity with very low thermal resistance
- › Tacky surfaces for improved contact
- › Soft and flexible, with very good compressibility
- › Capable of operating under low applied pressure
- › Very good electrical insulation (UL 94 V-0 certified)
- › ICT-TC-GFSP-SF-5011 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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