

FACT SHEET

ICT-TC-GFSP-1412



ICT-TC-GFSP-4012 Series offers excellent thermal conductivity while maintaining the silicone's superior heat resistance and electrical insulation properties. Its flexibility and adhesive qualities allow it to conform easily to heating elements, enhancing its performance.



4 THERMALLY CONDUCTIVE GAP FILLERS, PADS, SPACERS, SOFT-, ULTRASOFT-GEL

DESCRIPTION

The ICT-TC-GFSP-1412 series

is a thermally conductive, electrically insulating gap filler soft pad 2-layer type based on silicone (low volatile siloxane). The top surface has minimal adhesion, whereas the bottom side has excellent natural adhesion. This enables excellent thermal conduction, attributable to the material's softness and its capacity to adapt to different shapes.

The **ICT-TC-GFSP-1412 series** is guaranteed to offer good thermal conductivity, technical elasticity and high electrical dielectric strength. This material is perfect for a wide range of applications where large gaps between power components and heat sinks need to be bridged.

TYPICAL PROPERTIES

Color	Multicolor Orange-Yellow
Material	2-Layer, Silicone Elastomere Aufbau
Density	1.9 g/cm ³
Entflammbarkeit nach UL 94	UL 94V-0
Thermal conductivity	1.5 W/m ² K
Thermally conductive	Yes
Operating temperature	from 40 to 150 °C
Electrically conductive	No
Dielectric breakdown voltage	> >10KV/mm kV/mm

FEATURES

- › Good thermal conductivity: 1.5 W/m² K
- › Excellent thermal resistance (0,50 Rth,eff [K/W])
- › 2-layer type, excellent dimensional stability and workability
- › Self-adhesive on one side (naturally self-adhesive)
- › Low content of volatile siloxanes (D4-D10) ≤ 70 ppm
- › Low specific gravity: 1.85, the low specific gravity reduces the total weight
- › Cost-effective "drop-in-place" solution
- › Fully customized, centered on specific requirements
- › Very good mechanical and dielectric properties
- › Material interchangeability possible thanks to 2-layer structure

DELIVERY FORMS / APPLICATIONS

- Single-sided naturally tacky, top side non-adhesive
 - In cut-to-size formats and shapes in accord with customer specifications up to 1.00 mm material thickness, also on rolls upon request
 - Available in sheets and mats size 300 x 400 mm (200 x 300 mm)
 - Special sizes/cuts according to customer specifications, loose or on carrier liner (kiss cut)
 - Special sizes according to customer specifications | Delivery formats on carrier liner and as roll format – kiss cut – also possible upon request
- Applications:
- CPUs, GPUs • LED applications • Busbars • Battery storage systems • Unit controls • Medical lighting systems (LEDs) • Military electronics • Power supplies • Telecommunication services • Automotive control services

ICT4TIM Partners



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