

FACT SHEET

ICT-TC-TXE



The ICT-TC-TXE Series is a highly thermally conductive, electrically insulating silicone-based soft elastomer, with which very good thermal connections achieved due to its high thermal conductivity, softness and form adaptability.



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

DESCRIPTION

ICT-TC-TXE is a thermally conductive, electrically insulating silicone-based soft elastomer, with which very good thermal connections can be realized due to its softness and adaptability. In addition to a high thermal conductivity, the elastomer enriched in the special manufacturing process with heat conducting ceramics has excellent technical elasticity and high electrical impact resistance.

ICT-TC-TXE significantly reduces the overall transfer resistance and provides an optimal thermal path-a very good thermal performance. The first-class combination of thermal and mechanical properties makes the material suitable for a wide range of applications; Wherever large gaps must be bridged from the power component to the heat sink.

ICT-TC-TXE is coated on one side with a so-called E-material (former non-glass fibre reinforced version of the EC product variant), thus ensuring a good mechanical stability.

ICT-TC-TXE is naturally adhesive on one side. This material can also be pre-applied very well.

ICT-TC-TXE contains by very high reliability. In addition, it offers a balance in terms of best material performance by price & quality.

TYPICAL PROPERTIES

Operating temperature	from -60 to 180 °C
Thermally conductive	Yes
Thermal conductivity	5 W/m ² K
Thermal resistance (inch² / 645,16mm²)	0.27 0.48 0.9 1.32 1.74
Density	3.1 g/cm ³
Color	Gray
Material	Silicone Softpad Aufbau
Electrically conductive	No
Hardness (Shore 00)	50
Hardness (Shore A)	29 Shore A

FEATURES

- › High thermal conductivity 5 W/mK
- › Low heat transfer resistance 0,27 °C/W (0,50mm)
- › High electrical shock Resistance 11 kV/AC (0,50 mm)
- › Very good elasticity and flexibility
- › Very good mechanical damping Properties
- › Non-combustible according to UL 94 VO | **E-File No. E48923**
- › Self-adhesive on one side.

DELIVERY FORMS / APPLICATIONS

- In the form of Sheet: 300 x 400 mm
- Customer dimension-specific special shapes/cuts or on carrier liner (Kisscut) also in roll format and by arrangement (material thickness up to 1mm) possible

ICT4TIM Partners



ICT SUEDWERK GmbH
INSPIRED CUSTOMIZED TIM SOLUTIONS

Bajuwarenring 12a • 82041 Oberhaching
Tel: +49 (0)892123102-0 • Fax: +49 (0)892123102-10
Info@ict-suedwerk.de • www.ict-suedwerk.de

