

FACT SHEET

ICT-TC-GFSP-S-4002

formerly
ICT-FSL-BH



FSL-BH is harder than standard FSL-B grade, making it suitable for producing thicker pads.



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

DESCRIPTION

ICT-TC-GFSP-S-4002 is slightly harder than the entry level FSL-B. The material is excellent for bridging very large air gaps (> 3mm) with high mechanical stress at the same time.

The thermally conductive, electrically insulating gap filler spacer has an excellent balance between thermal conductivity and thermal transfer resistance.

The elastomer, enriched in the special manufacturing process with heat-conducting ceramics, offers a very good thermal performance.

ICT-TC-GFSP-S-4002 significantly reduces the overall transition resistance and provides an optimal thermal path-excellent thermal performance. The first-class combination of thermal and excellent mechanical properties makes the Gapfiller-spacer material interesting for a wide range of applications; Wherever very large gaps must be bridged from the power component to the heat sink. Due to the longevity and the associated high reliability, the ICT-TC-GFSP-S-4002 is often found in automotive applications such as air compressors and other auxiliary units.

Due to its natural adhesion, the material can also be vorapplizieren very well. The Gapfiller-spacer is on one side but also on both sides self-adhesive.

TYPICAL PROPERTIES

Operating temperature	from -60 to 180 °C
Thermally conductive	Yes
Thermal conductivity	4 W/m ² K
Thermal resistance (inch ² / 645,16mm ²)	0.44 0.89 1 1.61 0.3
Density	2.8 g/cm ³
Flammability (UL 94)	V-1
Color	Light Blue
Dielectric breakdown voltage	10.00 kV/mm
Electrically conductive	No
Hardness (Shore 00)	62

FEATURES

- › High Thermal conductivity 4 W/mK
- › Low heat transfer resistance 0, 48c °/W (1mm, see graphic)
- › High electrical shock Resistance > 10 kV/AC (1mm)
- › Very high elasticity and flexibility
- › Excellent Mechanical damping Properties
- › Non-combustible according to UL 94 VO
- › One-sided self-adhesive (AV) or self-adhesive on both sides.
- › In blanks and shapes according to customer specification
- › In the form of mats

DELIVERY FORMS / APPLICATIONS

- One-sided self-adhesive (AV) or self-adhesive on both sides.
- In the form of mats: 480x460mm and 460x450mm
- Customer dimension-specific special shapes/blanks or on carrier liner (Kisscut) also in roll format and by arrangement (material thickness 1mm) possible

ICT4TIM Partners



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