

## FACT SHEET

# ICT-BFG-A



The ICT-BFG-A series is from the product line-up of thermally conductive silicone films - the so-called TC-sheets - the material with the highest thermal conductivity.



**3 FOILS, FILMS, FIBREGLASS POLYIMIDE (REINFORCED)**

## DESCRIPTION

The ICT-BFG20-A type is a 0.20 mm thin glass fibre reinforced silicone-based film with exceptionally good heat-conductive ceramics, which has excellent electrical insulation and outstanding long-term stability as well as excellent thermal performance.

Due to its very soft surface quality, the material adapts very well to the contact surfaces, whereby the thermal contact-and thus the thermal total transfer resistance-are considerably minimised. The first-class combination of excellent thermal, mechanical and electrical properties makes the material so interesting for a wide range of applications.

Due to the longevity and the high reliability associated with it, ICT-BFG20-A often also applies to the cooling of inverters, power tools as well as in the automotive sector such as air conditioning compressors, electric auxiliary heaters, ventilation systems, e-controls, drive trains (gearboxes), etc.

## TYPICAL PROPERTIES

<b>Operating temperature</b>	from -60 to 180 °C
<b>Thermally conductive</b>	Yes
<b>Thermal conductivity</b>	5 W/m <sup>2</sup> K
<b>Thermal resistance (TO-3P / ca. 360mm<sup>2</sup>)</b>	0.28 °C/W
<b>Density</b>	1.7 g/cm <sup>3</sup>
<b>Flammability (UL 94)</b>	V-0
<b>Color</b>	White
<b>Material</b>	Silicone with glass fiber Aufbau
<b>Dielectric strength</b>	3.0 kV (AC)
<b>Electrically conductive</b>	No

## FEATURES

- › Very high thermal conductivity 5.0 W/mK
- › Minimum heat transfer resistance 0.12 C °/W
- › Soft material surface, adapts very well and minimises the Rth contact
- › High electrical shock Resistance > 3 kV/AC (0.20 mm)
- › Mechanical stability due to glass fibre reinforcement
- › Bendability (Foldability) given (1.0 mm)
- › No residue after removal (maintenance, inspection)
- › Clean, fast and process-safe assembly
- › No thermal compound required
- › Non-combustible according to UL 94 V0 (file.-No. E49895)

## DELIVERY FORMS / APPLICATIONS

- One-sided self-adhesive possible
- In blanks and shapes according to customer specification also on role after consultation
- In the form of sheets and mats 440 mm x 510mm
- Customer dimension-specific special shapes/blanks or on carrier liner (Kisscut)
- Custom Special Forms | Delivery formats on carrier liner and as roll format-Kisscut-by arrangement possible

ICT4TIM Partners



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