

FACT SHEET

ICT-BFG



The ICT-BFG series convinces by the unique combination of excellent thermal, mechanical as well as electrical properties and makes the material so interesting for a variety of applications.



3 FOILS, FILMS, FIBREGLASS POLYIMIDE (REINFORCED)

DESCRIPTION

The ICT-BFG series convinces by the unique combination of excellent thermal, mechanical as well as electrical properties and makes the material so interesting for a variety of applications.

Due to the surface quality, the material adapts very well to the contact surfaces, whereby the thermal contact-and thus the thermal total transfer resistance-is considerably minimised.

As in the case of ICT-BFG-A, the ICT-BFG also has a very high longevity and the associated high reliability. Therefore, this product group often finds its use in complex applications such as the Abindung of IGBT enclosures/microprocessors/capacitors, high-power LEDs (COB) etc.

Other areas of application include light bulbs, power tools, as well as in the automotive sector such as air compressors, electric auxiliary heaters, ventilation systems, e-controls, drive trains (gearboxes), etc.

TYPICAL PROPERTIES

Operating temperature	from -60 to 180 °C
Thermally conductive	Yes
Thermal conductivity	4.1 W/m ² K
Thermal resistance (inch² / 645,16mm²)	0.23 0.26 0.32 0.48
Density	1.7 g/cm ³
Flammability (UL 94)	V-0
Color	White Light Green
Material	Silicone With Glass Fiber Aufbau
Dielectric strength	6.5 kV (AC)
Electrically conductive	No

FEATURES

- › Very high thermal conductivity 4.1 W/mK
- › Minimum heat transfer resistance 0.20 C °/W
- › Soft material surface, adapts very well and minimises the Rth contact
- › Very high dielectric strength > 6.5 kV/AC (0.20 mm)
- › Mechanical stability due to glass fibre reinforcement
- › Buckling (foldability) given (1.20 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 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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