

FACT SHEET

ICT-BS



The ICT BS series combined the outstanding properties of the BFG-type, while providing more flexibility. This allows the mechanical partial pressure- be counteracted - especially during the mounting process.



3 FOILS, FILMS, FIBREGLASS POLYIMIDE (REINFORCED)

DESCRIPTION

The ICT-BS20 type is an all-rounder and find used wherever, where the developer needs to combined the mechanical stress with very good thermal properties.

ICT-BS20 is a glass-fibre reinforced-electrically insulating silicone-based film, filled with exceptionally good heat-conducting ceramics, which has excellent long-term stability and excellent thermal performance.

The glass fiber reinforced heat-conducting material ICT-BS20 has in comparison with the BFG ICT types decree a better foldability, tear resistance and mechanical resistance.

This first-class combination of outstanding thermal and very good mechanical as well as electrical properties makes this TIM type so interested for a very wide range of applications.

The ICT-BS series stand out like the BFG series, with a very good surface appearance.

Because of this property, the material can be optimally adapted to the contact surfaces whereby the thermal contact - and thus the total thermal resistance - are significantly will be minimized.

As like on the ICT-BFG-A, -B and ICT-BFG series the ICT-BS20 type also has a very long life and high reliability related, which is why this product group is often used in highly complex applications.

Other areas of application include high-voltage applications as well as applications in offshore systems (chopper, single-phase braking resistor), drive technology, illuminants, 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

Farbe	-60 .. 180
Density	0.4 g/cm ³
Flammability (UL 94)	V-0
Material	Silicone with glass fiber Aufbau
Thermally conductive	No
Thermal conductivity	3.9 W/m ² K
Thermal resistance (TO-3P / ca. 360mm²)	0.40 °C/W
Thermal resistance (inch² / 645,16mm²)	0.4 0.45
Electrically conductive	No

FEATURES

- › Very high thermal conductivity 3.9 W/mK
- › Minimum heat transfer resistance 0.19 C °/W (0,20 mm thickness)
- › Soft material surface, adapts very well and minimises the Rth contact
- › Very high dielectric breakdown voltage 3,0kV/AC (0.20 mm) until 10 KV /AC (0,80 mm)
- › Mechanical stability due to glass fibre reinforcement
- › Buckling (foldability) given (Completely foldable)
- › 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

- In the form of sheets and mats 440 mm x 510mm
- Customer dimension-specific special shapes
- Custom Special Forms | Delivery formats by arrangement possible

ICT4TIM Partners



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