

FACT SHEET

ICT-BR



BR has excellent thermal conduction and electrical insulation properties, so that it can be said to be ideal for heat dissipation material used with semiconductors such as transistors, diodes, and so on.



3 FOILS, FILMS, FIBREGLASS POLYIMIDE (REINFORCED)

DESCRIPTION

The BR type is the latest development in highly thermally conductive, electrically insulating film types. This new high-performance product has outstanding long-term stability and offers excellent thermal, mechanical and electrical properties. The material is also very well balanced in terms of cost performance and offers an optimal alternative to other competitor materials in the field of highly thermally conductive, glass fiber reinforced silicone films. ICT-BR is also available on rolls and with adhesive on one side.

ICT-BR is therefore used in many areas of power electronics due to its durability and associated high reliability. This product was developed by the manufacturer for use in so-called power tool applications and for automotive applications such as air conditioning compressors, PTZ interior heaters, etc.

TYPICAL PROPERTIES

Operating temperature	from -60 to 180 °C
Thermally conductive	Yes
Thermal conductivity	4 W/m ² K
Thermal resistance (TO-3P / ca. 360mm²)	0.21 °C/W
Density	2.1 g/cm ³
Flammability (UL 94)	94
Color	White
Material	Silicone with glass fiber Aufbau
Dielectric strength	2.0 kV (AC)
Electrically conductive	No

FEATURES

- › Very high thermal conductivity 4.0 W/m²K
- › Minimum heat transfer resistance 0.16 C°/W
- › Soft material surface, adapts very well and thus minimizes Rth contact
- › Very good dielectric strength > 2.0 KV /AC (0.20 mm)
- › Mechanical stability due to glass fiber reinforcement
- › Bendability (foldability) given (<1.3 mm)
- › No residue after removal (maintenance, inspection)
- › Clean, fast and reliable installation
- › No heat-conducting paste required
- › Non-flammable in accordance with UL 94 V0 (file no. E49895)
- › Translated with DeepL.com (free version)

DELIVERY FORMS / APPLICATIONS

- Einseitig selbsthaftend möglich
- In Form von Rollen (320 mm x 50 meter), Sheets und Matten 320 mm x 500 mm
- Kundenabmessungsspezifische Sonderformen / Zuschnitte Lose oder auf Trägerliner (Kisscut)
- Kundenspezifische Sonderformen| Lieferformate auf Trägerliner und als Rollenformat - Kisscut - nach Absprache möglich

ICT4TIM Partners



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