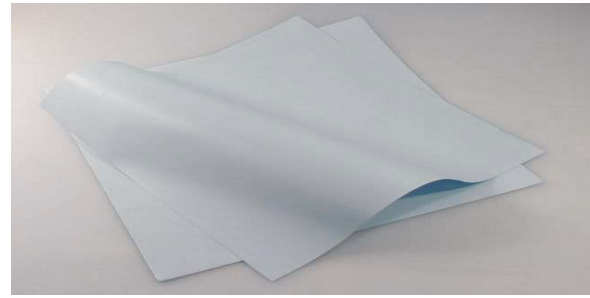


Glass-Fibre reinforced Silicone based Film / BFG-C Series

Glass-fibre reinforced for a better mechanical stability

BFG-C series (High thermal conductivity and very low heat transfer resistance) is silicone based rubber - fibreglass reinforced, electrically insulating with exceptionally good heat-conducting Boron Nitride ceramics which has excellent long-term mechanical stability as well as excellent thermal conductivity. Boron Nitride materials are the best materials among thin films, suitable for the production of pads under discrete packages and for cuts of different shapes and belts. They are required for thermally & mechanically demanded applications with good electrical insulation.



PROPERTIES

Excellent thermal and very good dielectric performance with perfect mechanical stability, easy handling very long life and reliability. Minimal outgassing. Optimal replacement of standard thermal materials which do not comply with the final thermal tests

AVAILABILITY

Standard Sheets 440mm x 510mm
Possibility on Roll 440mm, other width belts on request, Standard TO- formats
Die cut parts, various formats on request,
Pads in standard TO – discrete packages
Non tacky standard, self adhesive on one side available on request (higher Rth)

APPLICATION EXAMPLES

Heat Transfer of MOSFET, IGBT, Diode, Thyristor, Hybrid modules in all discrete semiconductors in TO and non-insulated packages
All power electronic, power supplies, servo drive, controller and inverters, battery units, UPS, welding, inducting heating etc.

Test Methods: All data without warranty and subject to change. Please contact us for further data and information.

Properties	Unit	BFG20-C	BFG30-C	BFG45-C
Material / Filler - Bornitrid		Silicon – glass fibre	Silicon – glass fibre	Silicon – glass fibre
Colour		Light Blue	Light Blue	Light Blue
Thickness	mm	0,20	0,30	0,45
Thermal and Electrical				
Thermal resistance (TO-3)	°C/W	0,08	0,11	0,14
Thermal resistance	°C*cm ² /W	0,5	0,64	0,84
Thermal conductivity	W/m*K	8	8	8
Operating temperature	°C	-60 °C to 180 °C	-60 °C to 180 °C	-60 °C to 180 °C
Storage temperature	°C	0° C to 40°C	0° C to 40°C	0° C to 40°C
Dielectric strenght	V(AC)	4000	5000	6000
UL flammability rating	UL	V-0	V-0	V-0
Mechanical				
Hardness Durometer A	JIS K6252	82	83	82
Tear strength	N/mm	45	37	29
Density	g/cm ³	1,6	1,6	1,6
Outgassing (LMW Siloxane) sum D3-10	ppm	<10	<10	<10

Compare ICT-BFG-C (8 W/m*K) & ICT-BFG-A (5 W/m*K)

