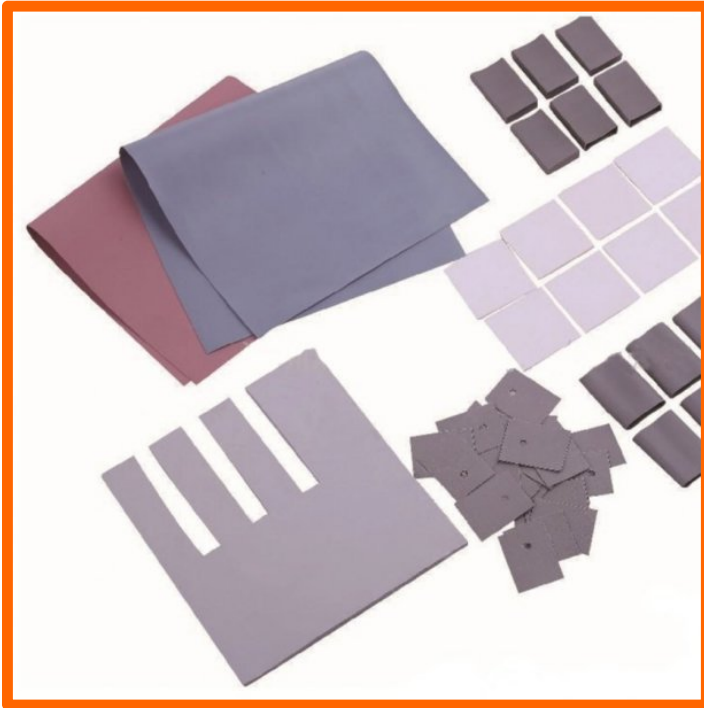


## Silicone Thermal Transfer Insulator Pad Fabrics: Fiberglass reinforced and polyimide reinforced -150°F to 400°F / -100°C to 204°C: DeltaGlass™



- Type 4500 fabric was designed for LED and Power semiconductor applications for maximum reliability.
- Fiberglass core or Kapton® core.
- This material resists heat, humidity and shock.
- Conforms to surface topography, maximizing contact area for uniform heat transfer.
- UL94 V-0 flame rating.
- 150°C RTI (Relative Thermal Index).
- Halogen free, RoHS compliant.
- Formulated for superior heat transfer characteristics.

**Thermal Transfer Insulator Pad Fabric – Fiberglass core**

Property	Typical Value	Test Method
Color	Mauve or Gray	Visual Inspection
Thickness	7 to 20 mils / 0.18 – 0.51mm	ASTM D374
Construction	Supported	N/A
Supporting Material	Fiberglass	N/A
Hardness	77 Shore A	ASTM D2240
Tensile Strength	850 PSI / 5.9 MPa	ASTM D412
Elongation, machine direction	4%	ASTM D412
Elongation, 45 Warp and Fill	20%	ASTM D412
Thermal Conductivity	0.87 btu/(hr*ft*F) / 1.5 W/m-K	ASTM D5470
Thermal Impedance @ 40 PSI	0.3 in <sup>2</sup> * C/W / 1.9e <sup>-4</sup> m <sup>2</sup> * K/W	ASTM D5470
Glass Transition Temperature	-180F / -118C	ASTM D3418
Operating Range	-150 to 400F / -100 to 204C	N/A
Dielectric Strength, kVac	➤ 500 V/mil / > 19 kV/mm	ASTM D149
Flammability Rating	V-0	UL 94
RTI, Mechanical	300F / 150C	UL 746
RTI, Electrical	300F / 150C	UL 746
Hot Wire Ignition (HWI)	4 @ 7 mils / 3 @ 20 mils 4 @ 0.17mm / 3 @ 0.51mm	UL 746
High Current Arc Ignition (HAI)	3 @ 7 mils / 2 @ 20 mils 3 @ 0.17mm / 2 @ 0.51mm	UL746

<b>Thermal Transfer Insulator Pad Fabric – Kapton® core</b>		
<b>Property</b>	<b>Typical Value</b>	<b>Test Method</b>
Color	Mauve	Visual Inspection
Thickness	6 to 7.5 mils / 0.15 – 0.19mm	ASTM D374
Construction	Supported	N/A
Supporting Material	Kapton® MT, 1 mil	N/A
Hardness	77 Shore A	ASTM D2240
Elastic Modulus (< or = 1% strain)	38,900 PSI / 268 MPa	ABTG TMS A1
Shear Modulus (< or = 25% strain)	145 PSI / 1.0 MPa	ASTM D412
Elongation, 45 Warp and Fill	20%	ASTM D1002
Thermal Conductivity	0.87 btu/(hr*ft*F) / 1.5 W/m-K	ASTM D5470
Thermal Impedance @ 40 PSI	0.27 in <sup>2</sup> * C/W / 1.8e <sup>-4</sup> m <sup>2</sup> * K/W	ASTM D5470
Glass Transition Temperature	-180°F / -118°C	ASTM D3418
Operating Range	-150 to 400°F / -100 to 204°C	N/A
Dielectric Strength, kVac	➤ 1000 V/mil / > 39 kV/mm	ASTM D149
Flammability Rating	V-0	UL 94
RTI, Mechanical	300°F / 150°C	UL 746
RTI, Electrical	300°F / 150°C	UL 746
Hot Wire Ignition (HWI)	3	UL 746
High Current Arc Ignition (HAI)	2	UL746

<b>Thermal Transfer Insulator Pad Fabrics</b>			
<b>16” roll width – 125 yards roll length</b>			
<b>Custom die cutting service available</b>			
<b>Part Number</b>	<b>Thickness, in.</b>	<b>Substrate</b>	<b>Price per Roll</b>
F-FG-SR-4500-XX	.007 to .020	Fiberglass	\$ on request
F-KAP-SR-4500-XX	.006 to .0075	Kapton®	\$ on request

▪ The “XX” value is thickness measured in mils.

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