

DATASHEET

GTS Series

High Performance Graphite

The GTS series graphite can be used in many applications requiring high thermal conductivity and extended temperature ranges. Graphite has excellent heat spreading qualities and is offered in a variety of thicknesses. GTS graphite can be die-cut or laminated with adhesives or other materials.

Properties		GTS-1000	GTS-500	GTS-250	GTS-100	GTS-25	GTS-12
Thickness	mm	1.0	.5	.25	.125	.025	.012
Thermal Conductivity <i>Through Plane-In Plane</i>	W/m-K	3-5 300-400	6-10 300-500	6-10 300-500	7-12 1000-1800	7-12 1000-1800	7-12 1000-1800
Bulk Density	mm	1.0-1.2	1.2-1.4	1.4-1.5	1.5-1.6		
Carbon Content		99 - 99.5%			99.5 - 99.9%		
Hardness	Shore	85					
CTE <i>In Plane-Through Plane</i>	10 ⁻⁶ m/m°C	-0.4 to 27.0					
Operating Temperature	°C	-40 to +400					
Specific Heat @25°C	J/kg-°C	710					

Note: This material is electrically conductive.

See second page for Available Sizes and Adhesive Options

DISCLAIMER: Purchaser shall be solely responsible for determining the adequacy of the product for any and all uses which the purchaser shall apply the product, and the application of the product by the purchaser shall not be subject to any implied warranty of fitness for that purpose.



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09/13

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GTS Series Graphite GTS Series Adhesive Options

GTS Series Grade	Maximum Available Size
GTS-1000	500 mm x 500 mm (sheets)
GTS-500	0.5 mm x 450 mm x 1,000 m (rolls)
GTS-250	0.25 mm x 450 mm x 1,000 m (rolls)
GTS-100	0.125 mm x 450 mm x 1,000 m (rolls)
GTS-25	0.025 mm x 450 mm x 1,000 m (rolls)
GTS-12	0.012 mm x 450 mm x 1,000 m (rolls)

Properties		Adhesive Options		
		GA1	GP1A1	GP8A8
Description		Acrylic	PET Film	PET Film
Coating Thickness	mm	0.013	0.038	0.012
Release Liner Thickness	mm	0.08	0.08	0.08
Release Liner Type		Paper	Paper	Paper
Dielectric Strength	V	-	2,800	900
Operating Temperature	°C	-40 to +180		
Thermal Contact Impedance	°C-cm ² /W per side	0.16	-	0.42
Thermal Conductivity Through Thickness	W/m-K	-	0.16	0.16

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