



T69-70Graphite Sheets

Version 1.280318

Graphite Sheets

T69-70 is a high performing thermal interface material which is very thin, synthetically made from a highly oriented graphite polymer film and has excellent thermal properties in both the XY and the Z axis. T69-70 is Ideal for providing thermal management in some of the most demanding of applications.

Features

Highly oriented pyrolytic graphite sheet with high thermal conductivity It is flexible and has features of ultra-thin and high EMI shielding effect Excellent thermal conductivity: 1600 W/ mK (4x as high as copper, 7x as high as aluminium)

Light weight: Specific gravity: 2.3 Flexible and easy to be cut or trimmed Low thermal resistance Low moisture content: < 1%

Applications

Electronic components: IC, CPU, MOS LED, M/B, P/S, Heat Sink LCD, TV, Notebook PC, PC Telecom Device, Wireless, etc. DDR II Module, DVD Applications, Hand-set applications, etc.

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property		T69-70	Unit	Tolerance	Test Method
Thickness		70um	mm	-	Micrometer
		0.070	mm	±0.017	Micrometer
Thermal	X-Y Direction	1000	W/mK	-	AC calorimeter
Conductivity	Z Direction	20	W/mK	-	Laser flash
Thermal diffusivity		8 - 10 (0.0008- .0010m²/s)	cm²/s	-	AC calorimeter
Density		1.2 (1200 kg/ m³)	g/cm³	-	Archimedes law
Specific heat (at 50°C)		0.85 (850J/kgk)	(J/gk)	-	-
Heat resistance		400	°C	-	-
Extensional	X-Y Direction	20	Мра	-	-
strength	Z Direction	0.4	Мра	-	-
Expansion coefficient	X-Y Direction	9.3 x 10 ⁻⁷	1/K	-	-
	Z Direction	3.2 x 10 ⁻⁵	1/K	-	-
Bending test (R5/180°C)		20000 or more	Times	-	-
Electric conductivity		20000	S/cm	-	JISK7194
Operating Temperature		-50 to 200	°C	-	-
Shelf Life		36	months	-	-

T-Global Technology Limited 1 & 2 Cosford Business Park, Central Park, Lutterworth, Leicestershire LE17 4QU U.K.

Tel: +44 (0)1455 553 510

Email: sales@tglobaltechnology.com Web: www.tglobaltechnology.com Skype: tglobal.technology

VAT #: GB 116 662 714



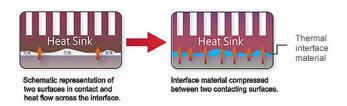
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Standard Weights & Dimensional Tolerance

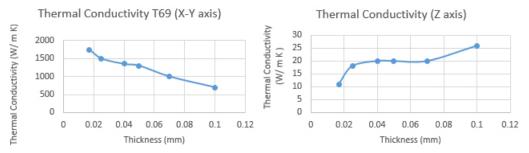
C:	Thickness (mm)	Weight (gr)	
Size	200x200x0.07	1.4	

- * All measurements in weights are in gr
- ** All sizes are in mm

Data



	Thickness (mm)	Tolerance (mm)
Die-Cut Thickness Tolerances	0.3	±0.03
	0.5	±0.05
	0.8	±0.08
	1.0	±0.1
	1.2	±0.12
	1.5	±0.15
	2.0	±0.2
	2.5 - 3.5	±0.25
	4.0 - 4.5	±0.3
	5.0	±0.35
	6.0 - 8.0	±0.4
	9.0	±0.45
	10.0	±0.5
	>10.0	±0.5



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^{*} Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.