

T69-40 Graphite Sheets



Graphite Sheets

T69-40 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. T69-40 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		T69-40	Unit	Tolerance	Test Method
Thickness		40um	mm	-	Micrometer
		0.040	mm	±0.012	Micrometer
Thermal Conductivity	X-Y Direction	1350	W/mK	-	AC calorimeter
Conductivity	Z Direction	20	W/mK	-	Laser flash
Thermal diffusivity		9 - 10 (0.0009- 0.0010m²/s)	cm²/s	-	AC calorimeter
Density		1.8 (1800 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	25	Мра	-	-
strength	Z Direction	0.4	Мра	-	-
Expansion	X-Y Direction	9.3 x 10⁻7	1/K	-	-
coefficient	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	-	-

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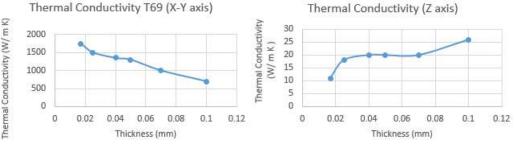


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Standard Weights & Dimensional Tolerance

Thickness (mm)	Teigi	nt (gr)
200x200x0.04	0.	.8
veights are in gr		
Heat Sin		Thermal interface material
tivity T69 (X-Y axis)		Thermal Co
	veights are in gr	veights are in gr

	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



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

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