



# Ti900

## Thermally Conductive Insulators

Version 3.01042019

### Thermal Conductive Insulators

Ti900 is a high thermal performance insulator pad designed to maximize thermal conductivity and electrical isolation performance for a wide variety of applications. The unique formulation offers a smooth and compliant surface which minimizes interfacial thermal resistance at low mounting forces.

### Features

- High insulation strength
- Low thermal resistance
- Die cut for custom shapes
- Easy to assemble

### 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	Ti900	Unit	Test Method
Colour	Grey	-	Visual
Viscose	One Side	-	ASTM D374
Thickness	0.12	mm	-
Base	RITF	-	-
Thermal Conductivity	1.8	W/mK	ASTM D5470
Thermal Resistance @ 10psi	0.50	K in <sup>2</sup> /W	ASTM D5470
Thermal Resistance @ 30psi	0.42	K in <sup>2</sup> /W	ASTM D5470
Thermal Resistance @ 50psi	0.35	K in <sup>2</sup> /W	ASTM D5470
Thermal Resistance @ 100psi	0.29	K in <sup>2</sup> /W	ASTM D5470
Thermal Resistance @ 200psi	0.28	K in <sup>2</sup> /W	ASTM D5470
Thermal Resistance @ 400psi	0.27	K in <sup>2</sup> /W	ASTM D5470
Insulation Strength Vac, V	>6000	-	ASTM D149
Volume Resistance	>10 <sup>12</sup>	Ohm-cm	ASTM D257
Working Temperature	-50 to 180	oc	-
Tensile Strength	5000	psi	ASTM D412
Elongation	40	%	ASTM D412
Flammability Rating	V-0	-	UL94
Shelf Life	36	months	-
Shelf Life with adhesive (can be requalified for further 12)	12	months	-

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## Thermally Conductive Insulators

### Standard Weights & Dimensional Tolerance

Size	Thickness (mm)	0.12
	100x100	0.96
	150x150	2.16
	300x300	8.64
	320x320	9.83

\* All measurements in weights are in gr

\*\* All sizes are in mm

Die-Cut Thickness Tolerances	Thickness (mm)	Tolerance (mm)
	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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