

## THERMALLY CONDUCTIVE FILLER PAD

### 5.00W/m.K, 40 SHORE 00, 300x300x0.3~15.0Tmm

#### W8TR500G



With an extremely high thermal conductivity 5.0 (W/m-K), the highly soft 40 Shore 00, W8TR500G thermal conductive silicone pad is suitable for working environments where the temperature varies greatly. It is able to overcome virtually any adverse environment in addition to conducting heat away from electronic components.

#### PRODUCT APPLICATION

- Electronic parts: IC, CPU, MOS.
- LED, M/B, PS, HEAT SINK, LCD-TV, NB.
- DDRII Module, DVD Application and so on.

Item	Unit	W8TR500G				Test Method
Thermal Conductivity	W/m.k	5.0				ASTM D5470
Hardness	Shore 00	40				ASTM D2240
Thickness	mm	0.3 ~ 15.0				ASTM D374
Specific Gravity	g/cm <sup>3</sup>	2.4				ASTM D792
Weight Loss	%	<1				120° / 24hrs
Tensile Strength	Psi	18.51				ASTM D412
Elongation	%	90.52				ASTM D412
Insulation Strength	kV / mm	2				ASTM D149
Flammability	-	V-0				UL-94
Max Temperature Range	°C	-40 ~ 200				-
Sheet Size	mm	300x300				-
Colour	-	Grey				Visual
<b>Thermal Resistance</b>						
Resistance	0.5mm	1.0mm	1.5mm	2.0mm	3.0mm	5.0mm
°C/W	0.170	0.358	0.503	0.565	0.777	1.157
°C*cm <sup>2</sup> /W	1.636	3.436	4.834	5.430	7.469	11.119
°C*in <sup>2</sup> /W	0.254	0.533	0.749	0.842	1.158	1.723
Specimen : 31mm-square (@40 psi)						

Compression (10% ~ 50%) , psi						
	0.5mm	1.0mm	1.5mm	2.0mm	3.0mm	5.0mm
10%	5.08	7.16	15.99	16.64	13.90	9.21
20%	32.71	35.85	57.11	55.43	53.43	29.82
30%	56.10	58.37	88.06	80.04	97.17	63.48
40%	64.18	74.88	183.36	164.02	200.17	132.91
50%	72.53	132.86	288.59	268.14	344.18	260.43
Specimen : 25mm-square Test Condition : 5mm/minute						

Part number system:

W6TR500G-XX

XX = Thickness  
 05 - 0.5mm  
 10 - 1.0mm  
 20 - 2.0mm  
 Etc.

AMEC Thermasol

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