



# TG-A3500F

## Ultra Soft Thermal Pad

Version 1.251119

### Ultra Soft Thermal Pad

TG-A3500F is one of our high performance silicone gap pads with a thermal conductivity of 3 W/mK. TG-A3500F contains a fibreglass re-enforcement carrier for enhanced tensile strength and ease of manufacture. TG-A3500F is formulated to provide superior surface wetting characteristics and provide low thermal impedance for the most demanding of applications. It is available as standard sheets and custom die-cut parts.

### Features

- High thermal conductivity
- Low thermal impedance
- Fibreglass re-enforced
- Non-deforming, high tensile strength
- Electrically insulating

### Applications

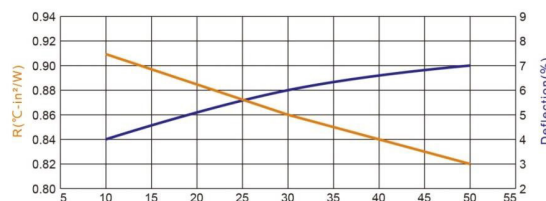
Best for high power applications  
 Electronic components: IC, CPU, MOS, LED, Motherboard, Power supply, Heat Sink, LCD TV, Notebook, PC, Telecom Device, Wireless Hub, DDR II Module, DVD Applications, Hand-set applications, etc.

### Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

Property	TG-A3500F	Unit	Tolerance	Test Method
Colour	Yellow	-	-	Visual
Thickness (Available thickness range)	0.5 - 8.0	mm	-	ASTM D374
	0.0197 - 0.315	inch	-	ASTM D374
Thermal Conductivity	3	W/mK	±10%	ASTM D5470
Flammability Rating	V-0	-	-	UL 94
Dielectric Breakdown Voltage	>6	kV/mm	-	ASTM D149
Weight Loss	<1	%	-	ASTM E595
Density	2.3	g/cm <sup>3</sup>	-	ASTM D792
Working Temperature	-50 to +150	°C	-	-
Volume Resistance	8x10 <sup>12</sup>	Ohm-m	-	ASTM D257
Elongation	80	%	-	ASTM D412
Standard Shape	Sheets	-	-	-
Hardness	30	Shore 00	±15	ASTM D2240

### Thermal Impedance vs Pressure vs Deflection



Pressure (psi)	R (°C-in/W)	Deflection (%)
10	0.91	4
30	0.86	6
50	0.82	7

Testing sample thickness: 1.0mm - In "Thermal resistance vs. Pressure vs Deflection" chart, TG-A3500F provides low thermal impedance. The pressure gets higher, the thermal impedance gets lower, & deflection percentage gets higher. TG-A3500F provides good compliance & softness.

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

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