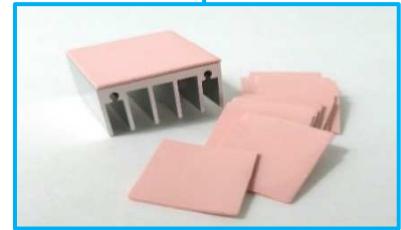


# Thermal Pad

Our Thermal Foam also called Gap Pad or Gap Filler are silicone-based thermo-conductive materials that solve the problems of heat dissipation. The TGF\_145\_AB is a mattress specially developed for applications where an intense cooling need is required. Indeed, this is an excellent thermal conductor of 14.5 W/mK, with very low thermal resistance thus facilitating the transfer of heat and which also has excellent electrical insulation. Below 1mm, the mattress is hardly usable in pick-in-place for robotic production, in this case it will be necessary to adjust its hardness before use. We can cut out according to customer plan.

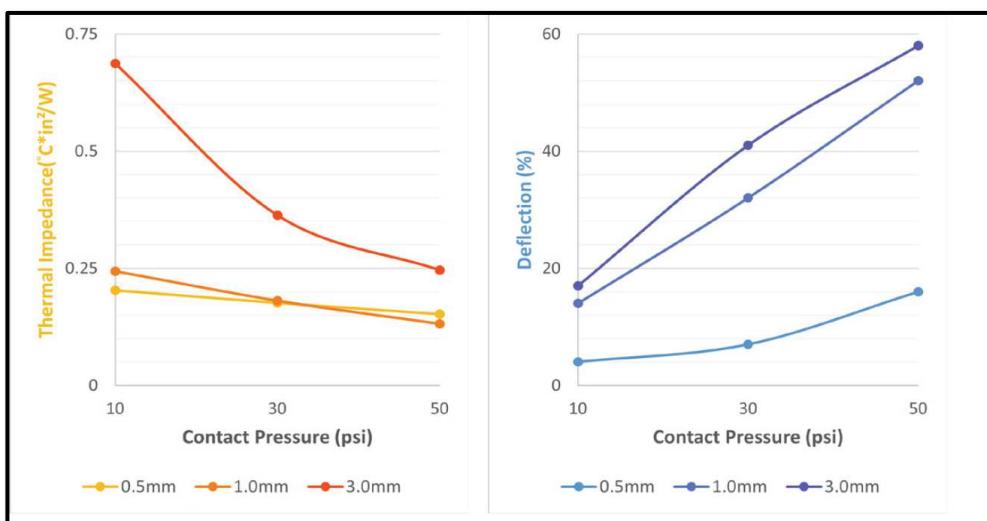


**Application areas:** Electronic components - Electric vehicles, 5G, Automatic driving system, Mobile phone, AIOT, HPC (High Performance Computing), Server, IC, CPU, MOS, Motherboard, Power supply, Heat sink, LCD-TV, laptop, PC, telecom device, wireless hub, DDR II module, etc.

## Technical characteristics

Features	TGF_145_AB	Unit	Tolerance	Test Method
<b>Color</b>	Pink	-	-	Colorimètre CIE 1976
<b>Density</b>	3.6	g/cm <sup>3</sup>	+/- 5%	ASTM D792
<b>Thickness</b>	0.5-6	mm	-	ASTM D374
<b>Hardness</b>	55	shore 00	+/- 10%	ASTM D2240
<b>Sizes</b>	310*310	mm	-	-
<b>Thermal conductivity</b>	14.5	W/mK	+/- 10%	ASTM D5470 Modified
<b>Weight loss</b>	< 1	%	-	ASTM E595 Modified
<b>Elongation</b>	30	%	-	ASTM D412
<b>Breakdown voltage</b>	≥ 8	kV/mm	-	ASTM D149
<b>Volume resistance</b>	7 x 10 <sup>12</sup>	Ohm-m	-	ASTM D257
<b>UL certification</b>	V-0	-	-	UL 94
<b>Temperature</b>	-50 to 180	°C	-	-

The TGF\_145\_AB is available in 0.5 to 6mm thicknesses.



The results were obtained under laboratory conditions and should be considered only as an indication. As AB2E has no control over its customers' equipment and many other factors, it is the user's responsibility to carry out its own tests to ensure that the product corresponds to its needs.

