

Phase change

Our Thermal Foams, also known as TPC, are phase-changing thermo-conductive materials that solve heat dissipation problems. TPC_W_PC is a thermally conductive phase change film optimizing the thermal path, where a low cooling requirement is required. Indeed, it is an excellent thermal conductor of 0.45W/ mK, and has a good thermal resistance thus facilitating heat transfer and does not have electrical insulation. We can cut according to customer plan. All our mattresses are certified UL 94 in V0.

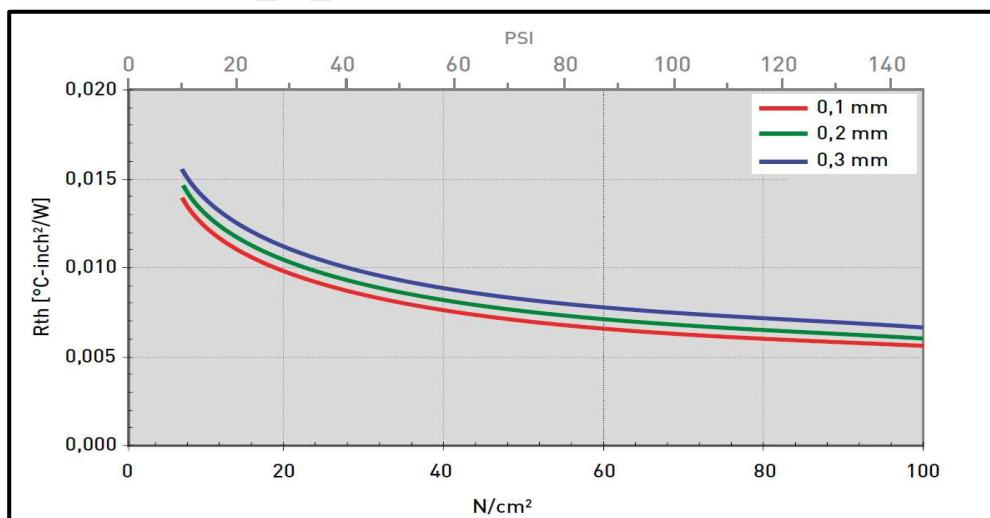


Application areas: Electronic components - Electric vehicles, 5G, Automatic control system, Mobile phone, AIOT, HPC (High Performance Computing), Server, IC, CPU, MOS, LED motherboard, Power supply, Heat sink, LCD-TV, Laptop, PC, Telecommunication device, Wireless hub, DDR module II, etc.

Technical characteristics

Features	Unit	TPC_W_PC			
Thickness	mm	0.1	0.2	0.3	-
Reinforcement	-	Phase change film			
Color	-	Gray			
Tensile strength	g/cm3	2.0			
Size	mm	305 x 152			
Resistance @150Psi	°C-inch ² /W	0.0056	0.0061	0.0067	-
Resistance @30 Psi		0.0097	0.0103	0.0111	-
Resistance @10 Psi		0.0138	0.0148	0.0158	-
Devinall TH Thermal Conductivity	W/mK	3.5			
Temperature phase change	°C	ca. 45			
Breakdown voltage	kV / AC	-			
Volume resistance	0hm - cm	-			
Contante dielectric	@ 1 MHz	-			

TPC_W_PC is available in 0.10/0.20/0.30/0.4mm 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.

