

# Transtherm™ Silicone Thermal Pads

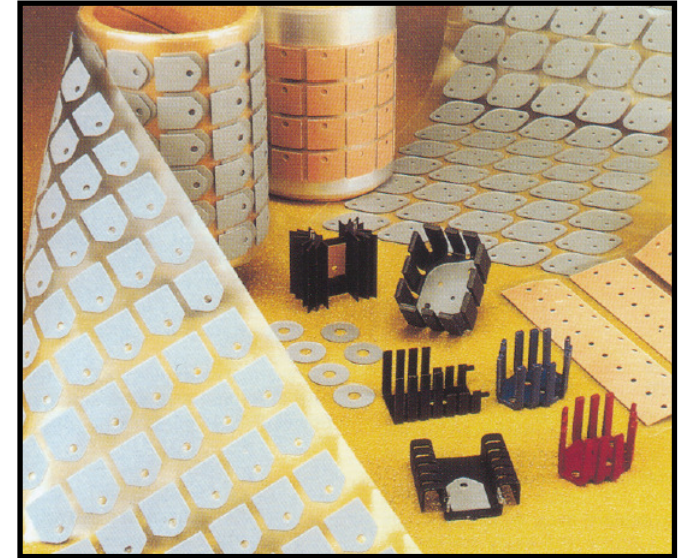
**Transtherm™ Silicone Thermal Pads** offer an economical solution to reduce operating temperature in electronic devices. Transtherm™ Silicone Pads are available in various thicknesses from high to low thermal resistance value. Products can be coated with pressure sensitive adhesive on one or both sides for specific application.

## Features

- High cut through resistance
- Supported with fiberglass or aluminium
- Low outgassing
- UL 94 V-O flammability rating (UL File E316839)
- Consists of non-toxic components in the material

## Applications

- Power conversion
- Automotive electronics
- Consumable electronics



**Transtherm Silicone Thermal Pad**

Physical Properties	T 400-7	T 600-9	T1000-9	T1200-9	T 1500-6	T 1500-10	Test Method
Color	gray	dark green	pink	green	salmon	light green	Visual
Thermal Impedance (°C.In <sup>2</sup> /Watt)	0,45	0,35	0,3	0,35	0,17	0,23	ASTM D5470 (modified)
Dielectric Constant, 60 Hz	2,19	2,46	2,25	2,85	2,56	2,56	ASTM D257
Dielectric Constant, 1kHz	2,15	2,5	2,2	2,75	2,47	2,47	ASTM D 257
Min. Continuous Use Temperature °C	-60	-60	-60	-60	-60	-60	MIL-I-49456A
Max. Continuous Use Temperature °C	180	180	180	180	180	180	ASTM D 5470 (modified)
Thermal Conductivity W/mk	0,9	1	1,2	1,3	1,6	2	ASTM D 5470 (modified)
Thickness mm	0,18	0,23	0,23	0,23	0,15	0,25	ASTM D374
Thickness Tolerance mm	+/- 0,03	+/- 0,03	+/- 0,03	+/- 0,03	+/- 0,02	+/- 0,03	
Volume Resistivity (Ohm * cm)	2E+15	4E+15	6E+15	1E+15	1E+15	1E+15	ASTM D257
Dielectric Strength (Volts minimum)	4000	4500	4500	3500	2000	4000	ASTM D 149
Weight Loss (%) 24 hrs.@ 200 °C	<1%	<1%	<1%	<1%	<1%	<1%	IMTM 1567
Hardness (Shore A )	85	85	84	80	80	80	ASTM D 257
Specific Gravity ( g/cm <sup>3</sup> )	2,1	1,5	1,5	1,6	1,4	1,5	ASTM D 792
Tensile Strength (MPa)	97	76	76	45	76	45	ASTM D 828
Breaking Strength (KN/m)	18	18	18	11,4	11	11	ASTM D 828
Elongation ( %)	2 to 4	2 to 4	2 to 4	2 to 4	2 to 4	2 to 4	ASTM D 828
Cut through Resistance (KN)	0,8	0,8	0,73	0,53	0,53	0,53	IMTM 1566
Dissipation Factor 60 Hz	0,0011	0,0012	0,0015	0,001	0,0007	0,0007	ASTM D 257
Dissipation Factor 1 Hz	0,0011	0,0011	0,0012	0,0009	0,0006	0,0006	ASTM D257
Flame Resistance ( UL file E316839)	UL 94 VO		UL 94 VO	UL 94 VO	UL 94 VO	UL 94 VO	UL 94
Construction / Material	Silicone/ Fiberglass	Silicone/ Fiberglass	Silicone/ Fiberglass	Silicone/ Fiberglass	Silicone/ Fiberglass	Silicone/ Fiberglass	

**Attention:**

All data and values of this technical information have been ascertained with care. Taking into consideration the multiplicity of both usage conditions and the process and application technologies, the data and information supplied represent lead values of a non-binding nature so that no warranty claims can be derived there from. Above all, in addition to our general sales conditions, only written agreements are regarded as being binding.