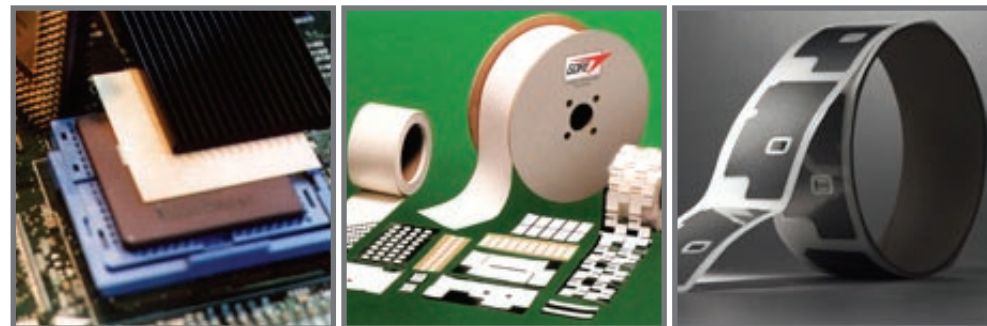


Transtherm® Polyester (Silicone-Free) Pads

Physical Properties	TP400-9	TP1000-9	TP1500-7	TF 4-5	TF6-5	TF7-5	TF10-5	TF6-7	Test Method
Color	purple	yellow	purple	purple	green	teal	yellow	green	Visual
Thermal Resistance (°C.In2/Watt)	0.4	0.3	0.23	0.3	0.23	0.3	0.2	0.43	ASTM D5470
Dielectric Constant, 60 Hz	3.16	3.1	3.1	n/a	n/a	n/a	n/a	n/a	ASTM D257
Dielectric Constant, 1 kHz	3.16	3.1	3.1	n/a	n/a	n/a	n/a	n/a	ASTM D257
Minimum Continuous Use Temperature (°C)	-20	-20	-20	-20	-20	-20	-20	-20	MIL-I-49456A
Maximum Continuous Use Temperature (°C)	150	150	150	180	150	150	150	180	
Thermal Conductivity (W/mK)	0.9	1.2	2	0.9	1.1	0.7	1.3	0.29	ASTM D5470
Thickness (mm)	0.23	0.23	0.18	0.13	0.125	0.115	0.213	0.2175	ASTM D374
Volume Resistivity (Ohm.cm)	2,00E+15	2,00E+15	2,00E+15	1,00E+12	1,00E+12	1,00E+12	1,00E+12	1,00E+12	ASTM D257
Dielectric Strength (Volts, minimum)	5500	5500	6000	8000	6000	8000	5000	11,000	ASTM D149
Weight Loss (%)	<1%	<1%	<1%	n/a	<1%	<1%	n/a		IMTM 1567
Hardness (Shore A)	90	90	90	90	90	90	90	90	ASTM D257
Weight Loss (%) 24hrs@200°C	2.1	1.7	1.6	1.8	1.8	1.8	1.8	1.8	ASTM D792
Tensile Strength (MPa)	76	76	76	21	21	14	21	21	ASTM D828
Breaking Strength (KN/m)	18	18	18	n/a	n/a	n/a	n/a	n/a	ASTM D828
Elongation (%)	2 to 4	2 to 4	2 to 4	40	40	30	40	40	ASTM D828
Cut Through Resistance (KN)	3.6	2.8	1.6	n/a	n/a	n/a	n/a	n/a	IMTM 1566
Dissipation Factor, 60 Hz	0.0201	0.02	0.02	n/a	n/a	n/a	n/a	n/a	ASTM D257
Dissipation Factor, 1 kHz	0.02	0.0201	0.02	n/a	n/a	n/a	n/a	n/a	ASTM D257
Flame Resistance (UL File E145242)	UL 94 VO	UL 94 VO	UL 94 VO	UL 94 VO	UL 94 VO	UL 94 VO	UL 94 VO	UL 94 VO	
Construction	Polyester/ Fiberglass	Polyester/ Fiberglass	Polyester/ Fiberglass	Polyester Kapton	Polyester Kapton	Polyester PEN	Polyester Kapton	Polyester Kapton	
Filler	Aluminium- Oxide	Boron Nitride	Boron Nitride	Aluminium Oxide	Aluminium Trihydrate	Aluminium Oxide		Aluminium Trihydrate	

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



If you are interested in more information or have questions about materials, capabilities, or applications you have seen on our website, or the attached data sheet, please feel free to contact us.

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