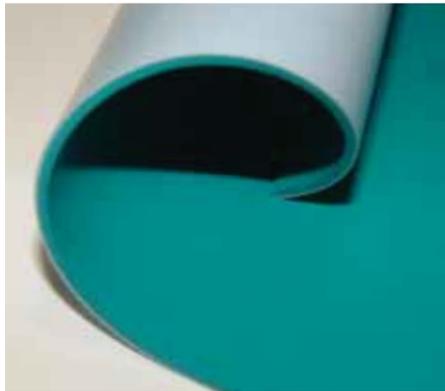


THERM-A-GAP™ TS15

Thermally Conductive Gap Filler Pads



THERM-A-GAP™ TS15 is designed to provide excellent mechanical integrity in applications where clamping forces exert extreme pressure on parts and where gaps are thicker than what is typical of dielectric pads.

Product Features:

- Increased tear resistance eliminates dielectric failures by preventing puncture from sharp components.

- Thermal performance decreases electronic component temperatures, increasing product lifetimes.

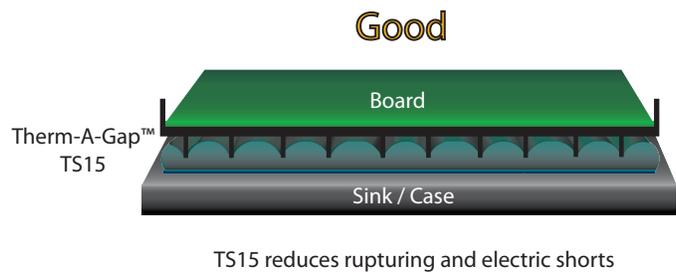
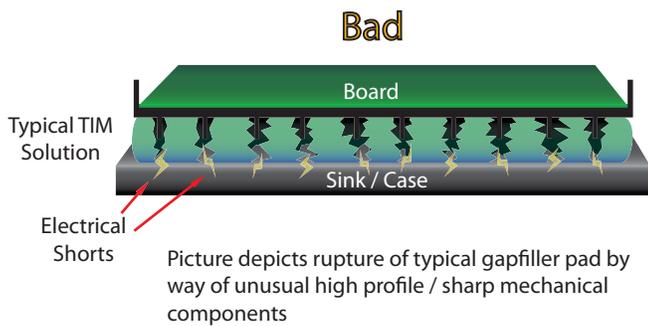
Product Attributes

- Good thermal conductivity
- Excellent mechanical strength
- Excellent cut-through resistance

THERM-A-GAP™ TS15 Thermally Conductive Pads				
Typical Properties		TS15	Test Method	
Physical	Color	Teal / Blue	Visual	
	Carrier	Fiberglass reinforced dielectric layer with PSA	--	
	Standard Thicknesses*, inch (mm)	0.040 - 0.200 (1.0 - 5.0)	ASTM D374	
	Specific Gravity	2.2	ASTM D792	
	Hardness, Shore A	50	ASTM D2240	
	Percent Deflection @ Various Pressures (0.125 in thick sample) @ 5 psi (34 kPa) @ 10 psi (69 kPa) @ 25 psi (172 kPa) @ 50 psi (345 kPa)	% Deflected		ASTM C165 MOD (0.125in "G" Type, 0.50 in dia. sample, 0.025 in/min rate)
		3		
		5		
		7		
9				
Tensile Strength, psi	250	ASTM D412		
Tear Strength, lb/in	40	ASTM D624		
Elongation, %	20	ASTM D412		
Thermal	Thermal Impedance, °C-in ² /W (°C-cm ² /W) @ 10 psi (69 kPa)	1.5 (9.7)	ASTM D5470	
	Thermal Conductivity, W/m-K	1.5	ASTM D5470	
	Heat Capacity, J/g-K	1	ASTM E1269	
	Coefficient of Thermal Expansion, ppm/K	250	ASTM E831	
Electrical	Dielectric Strength, V _{AC} /mil (KV _{AC} /mm)	200 (8)	ASTM D149	
	Volume Resistivity, ohm-cm	10 ¹⁴	ASTM D257	
	Dielectric Constant @1,000 kHz	6.5	ASTM D150	
	Dissipation Factor @ 1,000 kHz	0.013	Chomerics Test	
Regulatory	Flammability Rating (See UL File E140244 for Details)	Pending	UL 94	
	RoHS Compliant	Yes	Chomerics Certification	
	Outgassing, % TML (% CVMC)	Pending	ASTM E595	
	Shelf Life, months from date of shipment	18	Chomerics	

*Thickness tolerance, inch (mm) ±10% nominal thickness @ 0.100in. (2.5mm) or less; ± 0.010in.(0.25mm) @ nominal thickness greater than 0.100in. (2.5mm). Custom thicknesses may be available upon request.

THERM-A-GAP™ TS15 Thermally Conductive Pads



Ordering Information

Part Number:

6W	XX	YYYYY	ZZZZ																	
W	XX	YYYYY	ZZZZ																	
2 = OEM Sheet with PSA 1 side ("T" Carrier only)	Material thickness* is in ten mil increments (e.g. 10 = 0.100" or 2.54 mm) (e.g. 04 = 0.040" or 1.00 mm)	OEM Part Number Examples 0909 = (9" X 9" Sheet / 22.9 cm X 22.9 cm).	THERM-A-GAP™ Material Code TS15																	
9 = Custom configuration	12 = Custom, with PSA 1 side ("T" Carrier only)	Thermally conductive pads are available in the following formats. Distributor Part Numbers - 18" X 18" Sheets <table style="width: 100%; border: none;"> <tr> <td>0.010 in = 28539</td> <td>0.100 in = 20672</td> </tr> <tr> <td>0.015 in = 28540</td> <td>0.120 in = 27102</td> </tr> <tr> <td>0.020 in = 20698</td> <td>0.130 in = 20675</td> </tr> <tr> <td>0.030 in = 20913</td> <td>0.140 in = 27100</td> </tr> <tr> <td>0.040 in = 20684</td> <td>0.150 in = 27101</td> </tr> <tr> <td>0.050 in = 27395</td> <td>0.160 in = 20686</td> </tr> <tr> <td>0.060 in = 20991</td> <td>0.180 in = 27103</td> </tr> <tr> <td>0.070 in = 20685</td> <td>0.200 in = 20687</td> </tr> <tr> <td>0.080 in = 21259</td> <td></td> </tr> </table> Custom configuration (Please contact Chomerics for a pre-assigned part number, for custom widths, part sizes, etc.)		0.010 in = 28539	0.100 in = 20672	0.015 in = 28540	0.120 in = 27102	0.020 in = 20698	0.130 in = 20675	0.030 in = 20913	0.140 in = 27100	0.040 in = 20684	0.150 in = 27101	0.050 in = 27395	0.160 in = 20686	0.060 in = 20991	0.180 in = 27103	0.070 in = 20685	0.200 in = 20687	0.080 in = 21259
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* See typical properties table for thicknesses.

Custom die-cut parts on sheets
 Custom thicknesses available upon request

Excerpt From: THERM CAT 1002 EN May 2012