

LAIRD TECHNOLOGIES Thermal Interface Materials



RoHS Compliant This product is RoHS compliant.

THERMAL GAP FILLER PADS

Tflex™ gap fillers are used to bridge the interface between hot components and a chassis or heat sink assembly. The combination of good thermal conductivity and softness reduces mechanical stress, but maintains thermal performance.

Specifications:

- Thickness range: 0.2mm to 8.9mm (0.008" to 0.350") availability varies by product line
- UL Flammability: 94V0

Applications:

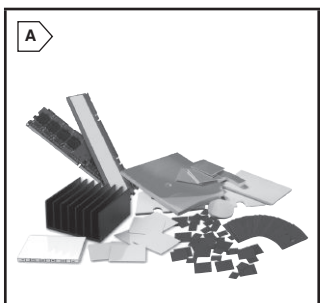
- Telecom - wireless infrastructure, routers and VOIP phones
- IT - notebooks, servers, memory modules, hard disk drives, solid state drives, scanners and printers
- Consumer - gaming systems, LCD PDP televisions, and displays
- Industrial - LED lighting, power supplies, lighting ballasts, controllers, scanners, and power converters
- Aerospace and military - power supplies, microwave radio, and controllers



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For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Laird Thermal Part No.	Fig.	Series Type	Breakdown Voltage	Color	Size	Material	Operating Temperature Range	Tensile Strength	Thickness	Price Each	
											1	5
739-A15324-01	A15324-01	A	Tflex 300	>10,000VAC	Green	9"x9"	Tflex 340	-40° to 160°C	15	40mils	29.88	27.79
739-A15330-03	A15330-03	B	Tflex 300	>10,000VAC	Green	9"x9"	Tflex 3100_DC1	-40° to 160°C	15	100mils	34.08	31.69
739-A14556-01	A14556-01	A	Tflex 500	>10,000VAC	Blue	9"x9"	Tflex 520FG	-45° to 200°C	66	20mils	22.34	21.19
739-A14558-01	A14558-01	A	Tflex 500	>10,000VAC	Blue	9"x9"	Tflex 540	-45° to 200°C	66	40mils	43.09	40.07
739-A14562-01	A14562-01	A	Tflex 500	>10,000VAC	Blue	9"x9"	Tflex 580	-45° to 200°C	46	80mils	73.98	61.65
739-A14566-01	A14566-01	A	Tflex 500	>10,000VAC	Blue	9"x9"	Tflex 5120	-45° to 200°C	46	120mils	142.11	113.69
739-A12618-01	A12618-01	A	Tflex 600	>5,000VAC	Purple	9"x9"	Tflex 640	-45° to 200°C	15	40mils	69.92	66.74
739-A12618-33	A12618-33	A	Tflex 600	>5,000VAC	Purple	18"x18"	Tflex 640	-45° to 200°C	15	40mils	279.66	260.09



ELECTRICALLY CONDUCTIVE THERMAL INTERFACE MATERIAL

Tgon™ 800 series is a high-performance, cost effective TIM that can be used where electrical isolation is not required. Tgon 800's unique grain oriented graphite plate structure provides high 240 W/mk thermal conductivity along the XY plane, and 5 W/mk through the Z axis.

Tputty™ gap fillers are used to bridge the interface between hot components and a chassis or heat sink assembly when elimination of mechanical stress or bulk dispensing are critical design considerations.

Specifications:

- Thickness range: 0.5mm to 5.1mm (0.02" to 0.200") bulk, availability varies by product line
- UL Flammability: 94V0

Applications:

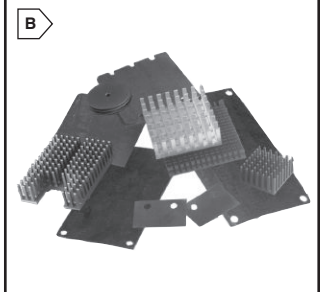
- Especially good for applications that require high conductivity and low cost without softness



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											1	5
739-A10462-03	A10462-03	B	Tgon 805	-	Pewter	12"x18"	Tgon 805,A0	-240° to 300°C	650	5mils	9.42	8.76
739-A10462-02	A10462-02	B	Tgon 805	-	Pewter	12"x18"	Tgon 805,A1	-240° to 300°C	650	5mils	14.10	13.25
739-A10462-15	A10462-15	B	Tgon 805	-	Pewter	18"x24"	Tgon 805,A1	-240° to 300°C	650	5mils	16.52	15.20
739-A10463-01	A10463-01	B	Tgon 810	-	Pewter	12"x18"	Tgon 810,A0	-240° to 300°C	650	10mils	10.90	10.25
739-A10463-02	A10463-02	B	Tgon 810	-	Pewter	12"x18"	Tgon 810,A1	-240° to 300°C	650	10mils	16.83	15.82
739-A10464-01	A10464-01	B	Tgon 820	-	Pewter	12"x18"	Tgon 820,A0	-240° to 300°C	650	20mils	13.23	12.44
739-A10464-02	A10464-02	B	Tgon 820	-	Pewter	12"x18"	Tgon 820,A1	-240° to 300°C	650	20mils	20.21	18.99
739-A10238-09	A10238-09	C	Tputty 502	>5,000VAC	White	9"x9"	Tputty 502FG2	-45° to 200°C	-	90mils	175.16	162.90
739-A13717-03	A13717-03	C	Tputty 504	-	Light Grey	30cc, manual syringe	Tputty 504	-45° to 200°C	-	-	85.34	74.53



TPCM™ AND TGREASE™ HIGH-PERFORMANCE PRODUCTS

High-performance products are used in applications where mechanical tolerances and general design has been optimized for thermal performance.

The Tpcm™ phase change product line is used in applications where reliability, repeatability, and handling must be controlled to optimize the performance as part of the total thermal solution. Available in screen printable formulation that offers the reliability and performance of a phase change material with the low-cost handling of thermal grease.

Tgrease™ is used in applications where a minimum bond line, constant pressure, and ease of screen printing is desired for optimal performance. They are designed to maximize reliability by eliminating pump out in most applications.

Applications:

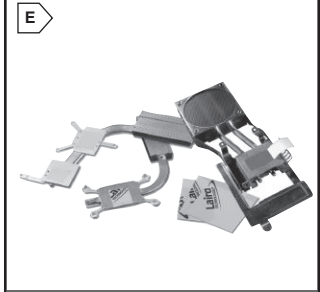
- IT - servers, desktops, notebooks, and memory modules
- Industrial - power supplies, lighting, LED lighting, and industrial electronics
- Telecom - routers and wireless infrastructure
- Consumer - gaming systems and portable devices



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MOUSER STOCK NO.	Laird Thermal Part No.	Fig.	Series Type	Color	Size	Material	Operating Temperature Range	Price Each	
								1	5
739-A14855-03	A14855-03	D	Tgrease	White	0.5kg can	Tgrease 1500	max 125°C	159.83	148.64
739-A15423-02	A15423-02	D	Tgrease	White	10cc manual syringe	Tgrease 1500	max 125°C	48.14	44.76
739-A16241-01	A16241-01	D	Tgrease	White	30cc jar	Tgrease 1500	max 125°C	17.13	16.10
739-A14259-05	A14259-05	D	Tgrease	White	1/2kg	Tgrease 2500	-55° to 150°C	270.91	251.94
739-A14399-01	A14399-01	D	Tgrease	White	10cc syringe	Tgrease 2500	-55° to 150°C	66.04	61.42
739-A14399-02	A14399-02	D	Tgrease	White	30cc syringe	Tgrease 2500	-55° to 150°C	67.81	54.25
739-A14399-03	A14399-03	D	Tgrease	White	50cc syringe	Tgrease 2500	-55° to 150°C	123.95	115.27
739-A15028-01	A15028-01	D	Tgrease	Gray	1/2kg	Tgrease 880	-40° to 150°C	328.59	305.59
739-A16241-03	A16241-03	D	Tgrease	Gray	30cc jar	Tgrease 880	-40° to 150°C	26.25	24.67
739-A10832-02	A10832-02	E	Tpcm	Yellow	9"x9"	Tpcm 910	-25° to 125°C	18.13	16.86



TGARD™ ELECTRICAL INSULATORS

Tgard™ thermally conductive electrical insulators are used where electrical isolation is a critical design consideration, with reliability, cut-through resistance, and thermal conductivity.

Applications:

- Industrial - power supplies and standard TO-packages that require isolation
- Telecom - board-to-chassis system electrical isolation



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MOUSER STOCK NO.	Laird Thermal Part No.	Fig.	Package Type	Breakdown Voltage	Material	Operating Temperature Range	Tensile Strength	Thickness	Price Each	
									1	100
739-A15037003	A15037003	F	TO-220	>6,000VAC	Kit, Tgard 5000, A0	-76° to 180°C	40MPa	5mils	.10	.078
739-A15038003	A15038003	F	TO-247	>6,000VAC	Kit, Tgard 5000, A0	-76° to 180°C	40MPa	5mils	.19	.153

