

THERM-A-GAP® PAD 30RB

3.0 W/m-K Thermally Conductive Reboundable Gap Filler Pad

Parker Chomerics THERM-A-GAP® PAD 30RB is a thermally conductive, reboundable gap filler pad with a thermal conductivity of 3.0 W/m-K. This gap pad offers excellent conformability and superior recovery properties, enabling it to effectively accommodate high stack-up tolerances while minimizing compressive loads and absorbing shock. With superior rebound property, it can be compressed and reapplied multiple times with minimal height loss and retains the same thermal performance as a fresh pad.

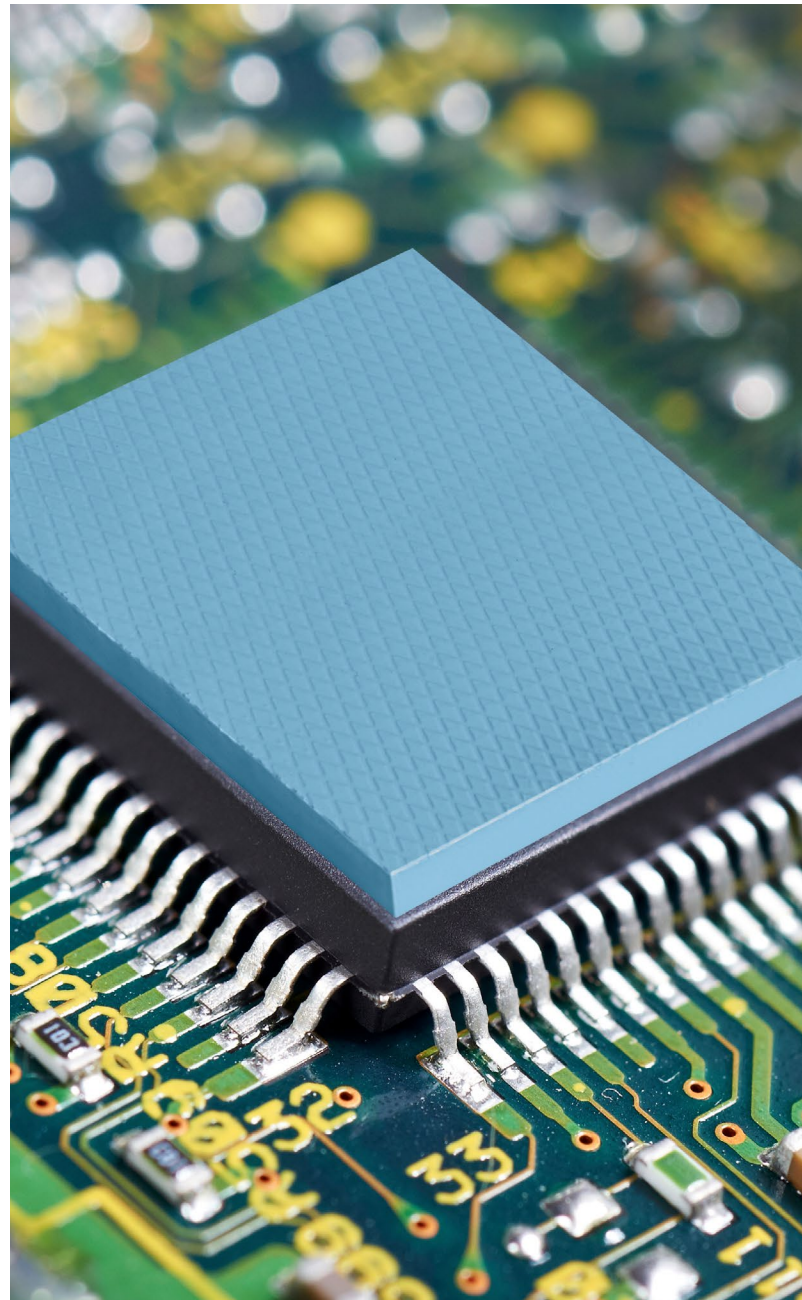
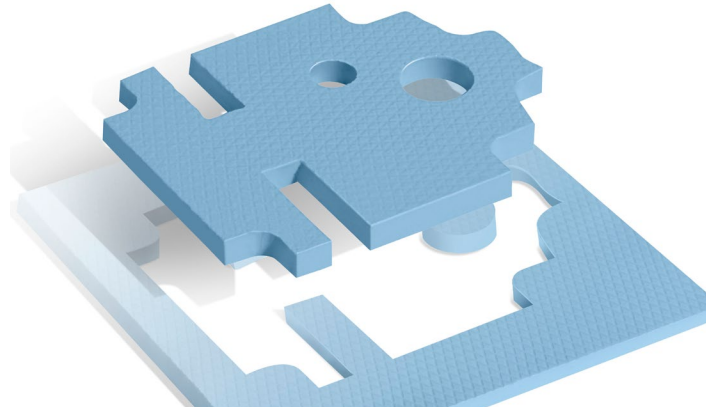
THERM-A-GAP® PAD 30RB is offered as a standalone material, with both sides naturally tacky for secure placement during assembly. Alternatively, it can be supplied with one side tacky and the opposite side non-tacky. This ensures the pad remains in position during assembly, while also facilitating easy disassembly and reuse.

Product Features

- 3.0 W/m-K thermal conductivity
- Very low compression force
- Reboundable
- Vibration dampening
- Reusable

Typical Applications

- Chipset test
- Automotive electronics (ECUs)
- Telecommunications Equipment
- Consumer electronics
- Desktop computers, laptops, servers



THERM-A-GAP PAD 30RB PRODUCT INFORMATION

Typical Properties		PAD 30RB	Test Method
Physical	Color	Blue	Visual
	Carrier Options: No letter suffix = None (unsupported) U = One side non-tacky coating KT = Thermally enhanced polyimide A = Aluminum foil - with PSA	PAD 30RB PAD 30RBU PAD 30RBKT PAD 30RBA	--
	Standard Thicknesses*, in. (mm)	0.020 – 0.200 (0.51- 5.08)	ASTM D374
	Specific Gravity	2.9	ASTM D792
	Hardness, Shore 00	30	ASTM D2240
Thermal	Operating Temperature Range, °F (°C)	-67 to 392 (-55 to 200)	Chomerics
	Thermal Conductivity, W/m-K	3.0	ASTM D5470
	Thermal Impedance, °C-in ² /W (°C-cm ² /W) @ 10 psi, @ 0.04 in. (1mm) thick	0.5 (2.9)	ASTM D5470
	Heat Capacity, J/g-K	1	ASTM E1269
	Coefficient of Thermal Expansion, ppm/K	150	ASTM E831
Electrical	Dielectric Strength, V _{AC} /mil (kV _{AC} /mm)	150 (0.02)	ASTM D149
	Volume Resistivity, ohm-cm	10 ¹³	ASTM D257
	Dielectric Constant @ 1,000 kHz and at 0.039 (1mm) thick	NA	ASTM D150
	Dissipation Factor @ 1,000 kHz and at 0.039 (1mm) thick	NA	CHO-TM-TP13
Regulatory	Flammability Rating	V-0	UL 94 Chomerics
	RoHS Compliant	Yes	Chomerics Certification
	Outgassing, % TML (% CVCM)	0.12 (0.02)	ASTM E595
	Shelf Life, months from date of shipment	24	Chomerics
	Storage Conditions, °F (°C) @ 50% Relative Humidity	50 to 90 (10 to 32)	Chomerics

† Typical properties: these are not to be construed as specifications.

* Thickness tolerance, inches (mm) is ±10% of the nominal part thickness for parts 0.100" (2.5mm) thick or less; those parts greater than 0.100" (2.5mm) thick are held to ±0.010" (±0.25mm).

** The typical deflection range is approximately 5-40%.

THERM-A-GAP PAD 30RB ORDERING INFORMATION

18" x 18" Sheets - Pressure Sensitive Adhesive (PSA) only with Aluminum Foil Carrier
"KT", "A" carrier, non-tacky coating and unsupported

Part Number: 69 — 1X — YYYYY — ZZZZZZ

1 = No Pressure Sensitive Adhesive	Sheet Thickness (in)* Available in 0.010" increments from (0.020" - 0.200") (0.5 mm - 5.0 mm)	Material/Carrier No Carrier (Unsupported) PAD30RB	Non-Tacky Coating PAD30RBU
2 = Pressure Sensitive Adhesive (PSA), Available Only with Aluminum Foil Carrier (A Letter Designation)	* Sheet thickness tolerance is ±10% of the nominal thickness OR ± .010", whichever is smaller	Aluminum Foil w/ PSA (A) PAD30RBA	Kapton (KT) PAD30RBKT

0.020 - 20698	0.120 - 27102
0.030 - 20913	0.130 - 20675
0.040 - 20684	0.140 - 27100
0.050 - 27395	0.150 - 27101
0.060 - 20991	0.160 - 20686
0.070 - 20685	0.170 - 27099
0.080 - 21259	0.180 - 27103
0.090 - 40378	0.190 - 40269
0.100 - 20672	0.200 - 20687
0.110 - 40306	

Ordering Information: Custom Configurations

Sheet thickness tolerance is ± 10% of the nominal thickness OR ±0.010", whichever is smaller. Please contact Parker Chomerics for a pre-assigned part number, for custom widths, lengths and part sizes; etc. Available options include custom die-cut parts on sheets, or as individual parts.

Handling Information

These products are defined by Parker Chomerics as "articles" according to the following generally recognized regulatory definition for articles:

An article is a manufactured item "formed to a specific shape or design during manufacturing," which has "end use functions" dependent upon its size and shape during end use and which has generally "no change of chemical composition during its end use."

In addition:

- There is no known or anticipated exposure to hazardous materials/substances during routine and anticipated use of the product.
- The product's shape, surface and design is more relevant than its chemical composition.

These materials are not deemed by Parker Chomerics to require an MSDS. For further questions, please contact Parker Chomerics at 781-935-4850.



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Sealing Devices Inc.