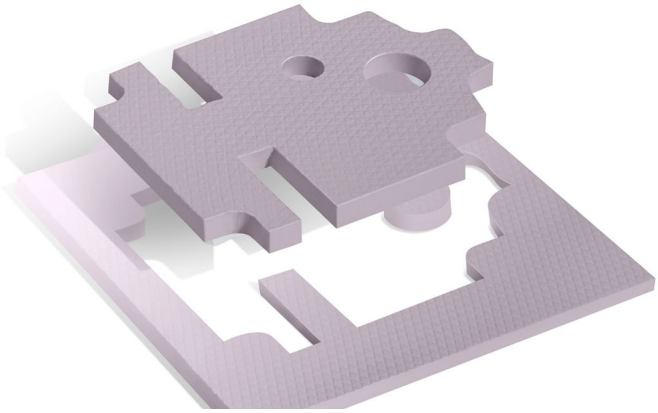
THERM-A-GAP® PAD 10

1.0 W/m-K High Performance Very Low Hardness Thermal Gap Filler Pad

Parker Chomerics THERM-A-GAP® PAD 10 Thermally Conductive Gap Filler Pads offer a cost-effective solution with a low hardness rating of 35 Shore 00 and a thermal conductivity of 1.0 W/m-K. These gap-filler sheets and pads are engineered to deliver reliable thermal performance and exceptional conformability under low compression force, making THERM-A-GAP PAD 10 the ideal choice for applications requiring high adaptability.

Available in a variety of thicknesses, THERM-A-GAP PAD 10 comes in standard sheet sizes of 9”x9” or 18”x18”. It can be provided in custom size configurations and die-cut parts tailored to application requirements.

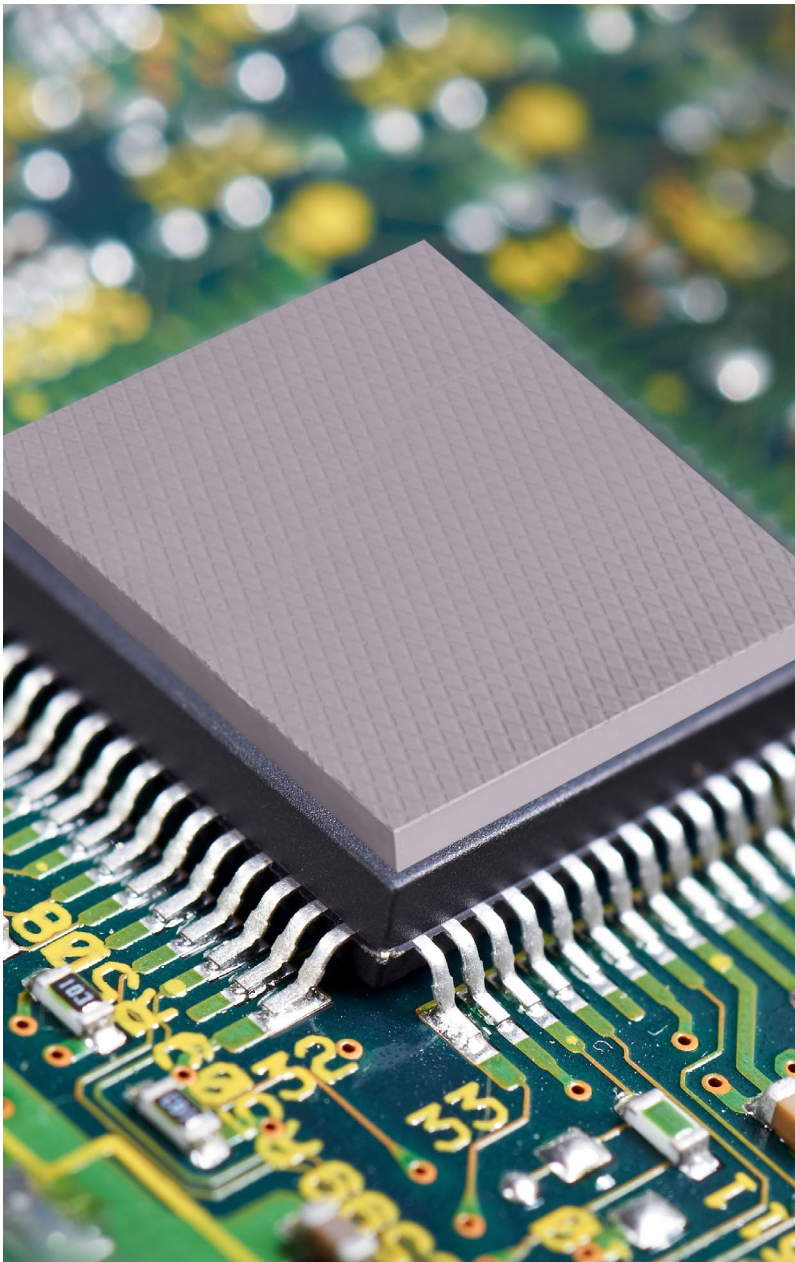


Product Features

- Cost Effective
- Very low deflection force requirements
- High thermal conductivity
- High tack surface reduces contact resistance
- UL 94 V-0 flammability rated
- RoHS compliant

Typical Applications

- Telecommunications equipment
- Consumer electronics
- Automotive electronics (ECUs)
- LEDs & lighting
- Power conversion
- Desktop computers, laptops, servers
- Handheld devices
- Memory modules
- Vibration dampening



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THERM-A-GAP PAD 10 PRODUCT INFORMATION

	Typical Properties†	PAD 10	Test Method
Physical	Color	Light Purple	Visual
	Binder	Silicone	--
	Carrier Options Supported (standard): Unsupported A = Aluminum foil carrier - with acrylic PSA G = Woven glass carrier - no PSA	PAD 10 PAD 10A PAD 10G	--
	Standard Thicknesses*, in (mm)	0.010 - 0.200 (0.25 - 5.0)	ASTM D374
	Specific Gravity	2.0	ASTM D792
	Hardness, Shore 00	35	ASTM D2240
	Percent Deflection @ various pressures (0.120 in thick sample) @ 5 psi (34 kPa) @ 10 psi (69 kPa) @ 25 psi (172 kPa) @ 50 psi (345 kPa)	% Deflected 26 36 59** 73**	ASTM C 165 MOD (0.120 in "G" Type, 0.50 in dia probe, 0.025 in/min rate)§
	Operating Temperature Range, °F (°C)	-67 to 392 (-55 to 200)	Chomerics
Thermal	Thermal Conductivity, W/m-K	1	ASTM D5470
	Thermal Impedance, °C-in²/W (°C-cm²/W) @ 10 psi, @ 0.04 in (1 mm) thick, "G" version only	1.5 (9.7)	ASTM D5470
	Heat Capacity, J/g-K	1	ASTM E1269
	Coefficient of Thermal Expansion, ppm/K	N/A	ASTM E831
Electrical	Dielectric Strength, Vac/mil (kVac/mm)	200 (8)	ASTM D149
	Volume Resistivity, ohm-cm	10^{14}	ASTM D257
	Dielectric Constant @ 1,000 kHz and at 0.080 (2 mm) thick	5.3	ASTM D150
	Dissipation Factor @ 1,000 kHz and at 0.080 (2 mm) thick	0.013	CHO-TM-TP13
Regulatory	Flammability Rating	V-0 (Tested by Chomerics)	UL 94
	RoHS Compliant	Yes	Chomerics Certification
	Outgassing, % TML (% CVCM)	0.40 (0.08)	ASTM E595
	Shelf Life, months from date of shipment	24	Chomerics
	Shelf Life, months from date of shipment - "A" aluminum foil carrier version ONLY	18	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 ±0.002 (±0.05 mm) of the nominal part thickness for parts less than 0.020 in (2.5mm) thick.
Part thicknesses greater than 0.020" (0.5 mm) are held to ±10% of the nominal thickness or ±0.010" (± 0.25mm), whichever is smaller
** The typical deflection range is approximately 5-40%.

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THERM-A-GAP PAD 10 ORDERING INFORMATION

9”x9” Sheets - THERM-A-GAP PAD 10

PART NUMBER: 6W — XX — 0909 — ZZZZZZZ

1 = No Pressure Sensitive Adhesive
2 = Acrylic Pressure Sensitive Adhesive (PSA), Available Only with Aluminum Foil Carrier (A Letter Designation)

Sheet Thickness (in)†
Available in 0.010” increments from (0.010” - 0.200”) (0.254 mm - 5.0 mm)

0.010” (0.25mm) = 01*	0.110” (2.79mm) = 11
0.020” (0.51mm) = 02**	0.120” (3.05mm) = 12
0.030” (0.76mm) = 03	0.130” (3.30mm) = 13
0.040” (1.02mm) = 04***	0.140” (3.56mm) = 14
0.050” (1.27mm) = 05	0.150” (3.81mm) = 15
0.060” (1.52mm) = 06	0.160” (4.06mm) = 16
0.070” (1.78mm) = 07	0.170” (4.32mm) = 17
0.080” (2.03mm) = 08	0.180” (4.57mm) = 18
0.090” (2.30mm) = 09	0.200” (5.08mm) = 20
0.100” (2.54mm) = 10	

Sheet Size
Overall Tolerances
± 0.250in (± 6.45 mm)

9” x 9” sheet
(228.6 mm x 228.6 mm)

Material Type

PAD10
PAD10A
PAD10G

* Minimum thickness for PAD10A is 0.010” (0.25mm)
** Minimum thickness for PAD10G is 0.020” (0.51mm)
*** Minimum thickness for PAD10 is 0.040” (1.02mm)

Ordering Information: Custom Configurations

†Thickness tolerance, inches (mm) is ±0.002 (±0.05 mm) of the nominal part thickness for parts less than 0.020 in (2.5mm) thick.

Part thicknesses greater than 0.020” (0.5 mm) are held to ±10% of the nominal thickness or ±0.010” (± 0.25mm), 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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THERM-A-GAP PAD 10 ORDERING INFORMATION

18”x18” Sheets - THERM-A-GAP PAD 10

PART NUMBER: 69 — 1W — YYYY — ZZZZZZ

Custom Sheet
18 ± 0.250” x 18 ± 0.250”
Distributor Sheets

These sheets are typically sold to fabricating distributors.

Sheets may contain up to five (5) defects, not to exceed 1 square inch.

Defects are “marked” prior to shipment.

1= No Pressure Sensitive Adhesive

2 = Acrylic Pressure Sensitive Adhesive (PSA), Available Only with Aluminum Foil Carrier (A Letter Designation)

Sheet Thickness (in)†
Available in 0.010” increments from (0.010” - 0.200”)
(0.254 mm - 5.0 mm)

0.010” (0.25mm) = 28539*	0.110” (2.79mm) = 40306
0.020” (0.51mm) = 20698**	0.120” (3.05mm) = 27102
0.030” (0.76mm) = 20913	0.130” (3.30mm) = 20675
0.040” (1.02mm) = 20684***	0.140” (3.56mm) = 27100
0.050” (1.27mm) = 27395	0.150” (3.81mm) = 27101
0.060” (1.52mm) = 20991	0.160” (4.06mm) = 20686
0.070” (1.78mm) = 20685	0.170” (4.32mm) = 27099
0.080” (2.03mm) = 21259	0.180” (4.57mm) = 27103
0.090” (2.30mm) = 40378	0.190” (4.83mm) = 40269
0.100” (2.54mm) = 20672	0.200” (5.08mm) = 20687

Material Type

PAD10
PAD10A
PAD10G

* Minimum thickness for PAD10A is 0.010” (0.25mm)
** Minimum thickness for PAD10G is 0.020” (0.51mm)
*** Minimum thickness for PAD10 is 0.040” (1.02mm)

Ordering Information: Custom Configurations

†Thickness tolerance, inches (mm) is ±0.002 (±0.05 mm) of the nominal part thickness for parts less than 0.020 in (2.5mm) thick.

Part thicknesses greater than 0.020” (0.5 mm) are held to ±10% of the nominal thickness or ±0.010” (± 0.25mm), 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

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CHODS1149 November 2025

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