

THERM-A-GAP® 974, G974 & 976

High Thermal Conductivity Thermal Gap Filler Pads

ERM-A-GAP® gap-filler sheets and pads offer excellent thermal properties and conformability at low clamping forces.

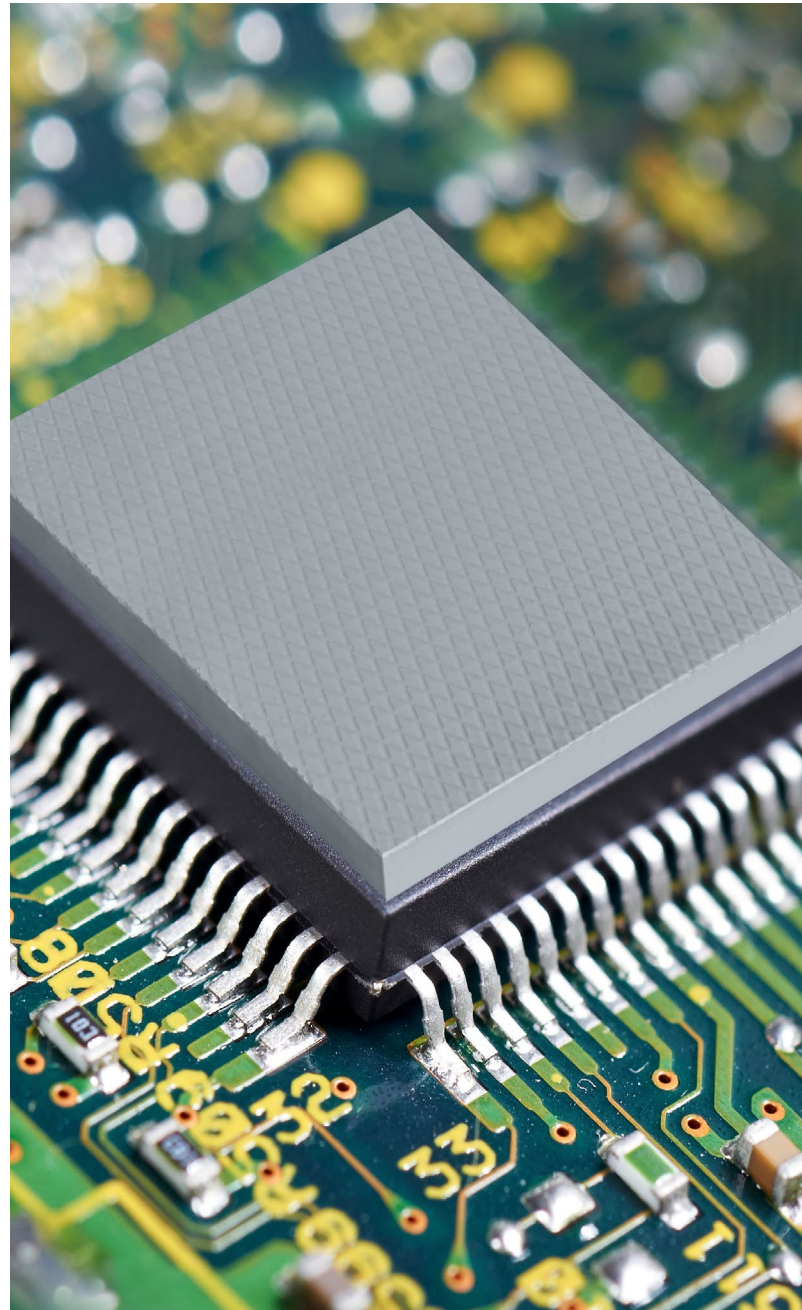
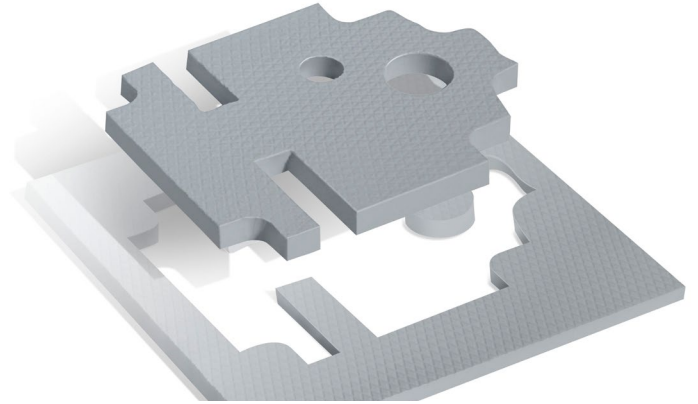
Most products are available on aluminum foil "A" or on "clean break" glass "G" fiber carrier. As with all previous Parker Chomerics gap-fillers, the "A" versions have a high strength acrylic pressure sensitive adhesive (PSA) for ease of attachment to the cold surfaces.

Product Features

- Ultra low deflection force
- High thermal conductivity
- High tack surface reduces contact resistance
- Various thicknesses available, finished in standard sheets
- Custom sized configurations and/or cut parts are available as individual parts or on sheets
- "A" version offers high strength acrylic PSA for ease of installation

Typical Applications

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



THERM-A-GAP PAD PRODUCT INFORMATION

Typical Properties†		G974	974	976	Test Method
Physical	Color	Light Gray	Light Gray	Gold	Visual
	Binder	Silicone	Silicone	Silicone	--
	Carrier Options Supported (standard): G = Woven glass carrier - no PSA A = Aluminum foil carrier - with acrylic PSA F = Woven glass carrier - centered on thickness No pressure sensitive adhesive (PSA) option Supported (custom): PN = PEN film carrier KT = Thermally enhanced polyimide carrier Unsupported (no carrier): 579 and 580 only - no letter notation needed	Fiberglass with PSA	PSA	None*	--
	Standard Thicknesses*, in (mm)	0.010 - 0.100 (0.25 - 2.54)	0.020 - 0.060 (0.51 - 1.52)	0.040 - 0.200 (1.00 - 5.08)	ASTM D374
	Specific Gravity	1.4	1.4	1.3	ASTM D792
	Hardness	40, Shore A	40, Shore A	10, Shore A	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)	% Deflection 7 11 12 13	% Deflection 7 11 12 13	% Deflection 6 10 11 45**	ASTM C165 MOD (0.125 in "G" Type, 0.50 in dia probe, 0.025 in/min rate)§
	Operating Temperature Range, °F (°C)	-67 to 392 (-55 to 200)	-67 to 392 (-55 to 200)	-67 to 392 (-55 to 200)	Chomerics
	Thermal Conductivity, W/m-K	5.0	6.0	6.5	ASTM D5470
	Thermal Impedance, °C-in²/W (°C-cm²/W) @ 10 psi, @ 0.04 in (1 mm) thick, "G" version only	0.51 (3.3)	0.45 (2.9)	0.30 (1.9)	ASTM D5470
Thermal	Heat Capacity, J/g-K	0.9	0.9	0.9	ASTM E1269
	Coefficient of Thermal Expansion, ppm/K	100	100	100	ASTM E831
Electrical	Dielectric Strength, Vac/mil (kVac/mm)	200 (8)	200 (8)	200 (8)	ASTM D149
	Volume Resistivity, ohm-cm	10 ⁴	10 ⁴	10 ⁴	ASTM D257
	Dielectric Constant @ 1,000 kHz	3.2	3.2	3.2	ASTM D150
	Dissipation Factor @ 1,000 kHz	< 0.001	< 0.001	< 0.001	CHO-TM-TP13
Regulatory	Flammability Rating	V-0	Not Tested	V-0	UL 94
	RoHS Compliant	Yes	Yes	Yes	Chomerics Certification
	Outgassing, % TML (% CVCM)	0.59 (0.18)	0.59 (0.18)	0.64 (0.21)	ASTM E595
	Shelf Life, months from date of shipment	12	12	24	Chomerics
	Shelf Life, months from date of shipment - "A" aluminum foil carrier version ONLY	N/A	N/A	N/A	Chomerics
	Storage Conditions, °F (°C) @ 50% Relative Humidity	50 to 90 (10 to 32)	50 to 90 (10 to 32)	50 to 90 (10 to 32)	Chomerics

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

* THERM-A-GAP 976 is only offered without a carrier, PSA not available.

** The typical deflection range for G974 and 974 is approximately 5-20%; 976 is 5-30%.

THERM-A-GAP 976 ORDERING INFORMATION

9" x 12" and 20" x 25" Sheets - No Pressure Sensitive Adhesive (PSA)



Ordering Information: Custom Configurations

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
- "A" version offered die-cut (up to 0.040") on continuous rolls (higher volumes)
- Custom molded designs and ribbed sheets

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."

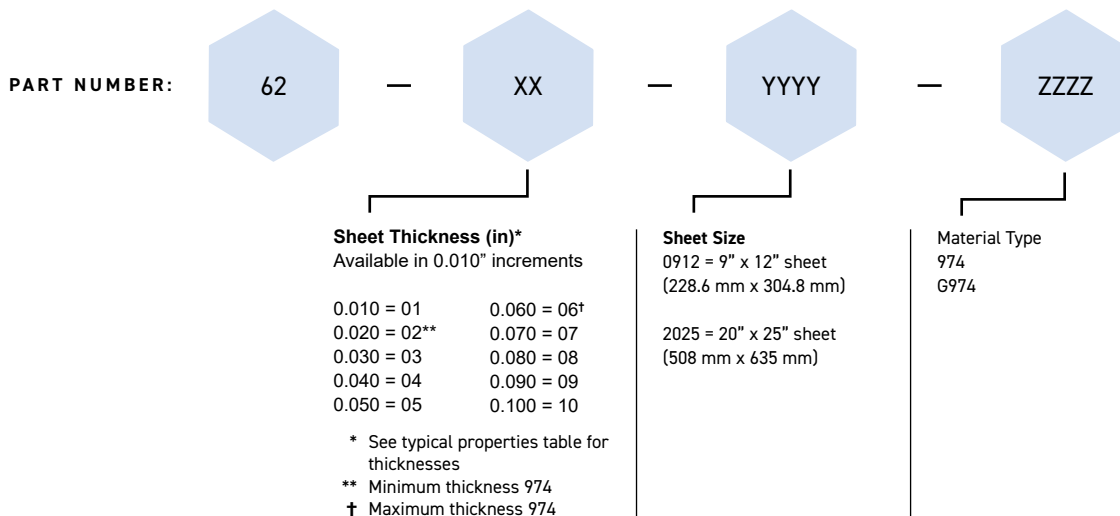
In addition:

- 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.

THERM-A-GAP 974 AND G974 ORDERING INFORMATION

9" x 12" and 20" x 25" Sheets - Pressure Sensitive Adhesive (PSA) 1 Side



Ordering Information: Custom Configurations

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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