

# THERM-A-GAP® 500 SERIES

## 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.

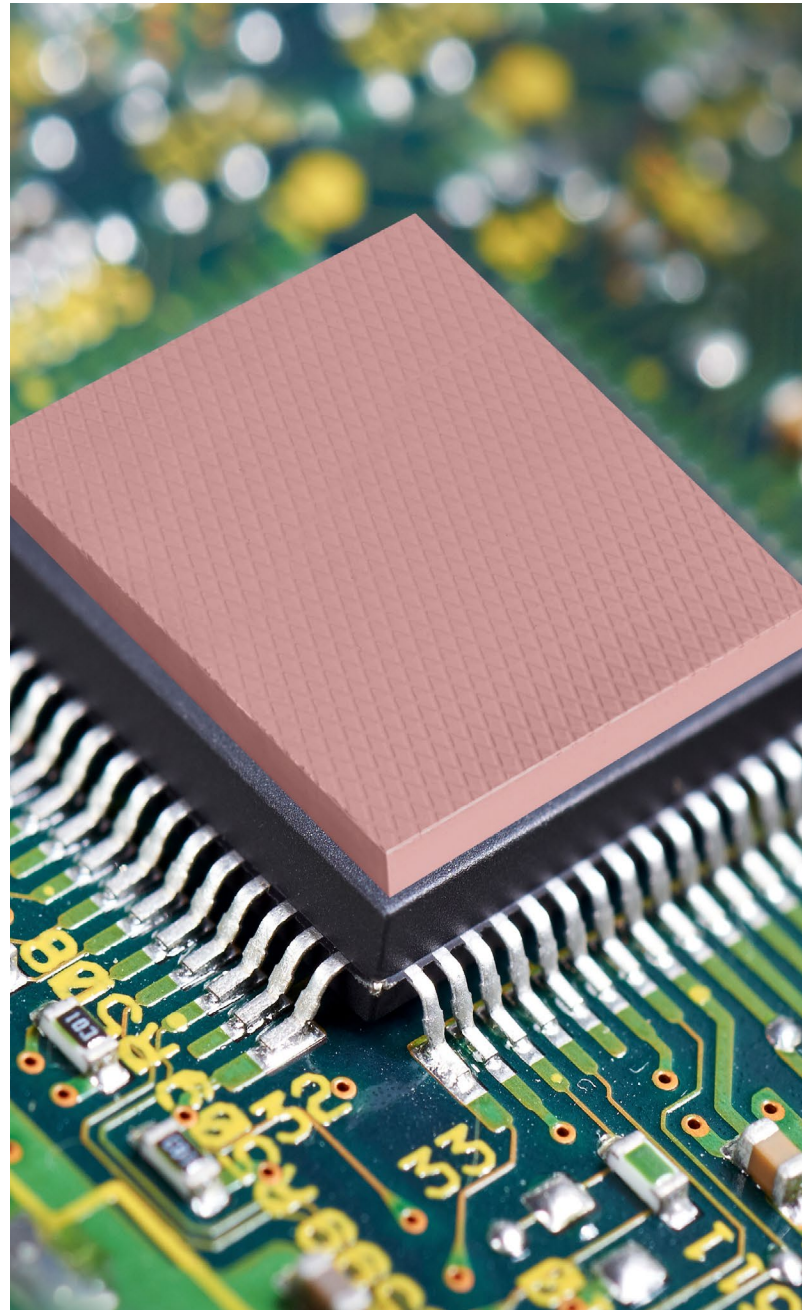
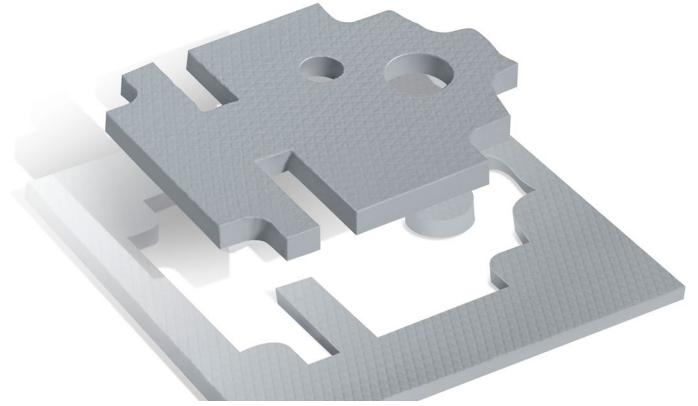
Most products are available on aluminum foil "A" or on "clean break" glass "G" fiber carrier. As with all previous Parker Chomerics gap-fillers, the "A" versions have a high strength acrylic pressure sensitive adhesive (PSA) for ease of attachment to the cold surfaces.

### 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†		569	570	579	580	Test Method
Physical	Color	Gray	Blue	Pink	Yellow	Visual
	Binder	Silicone	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	A569 G569 569PN	A570 G570	A579 G579 579PN 579KT 579	A580 G580 580	--
	Standard Thicknesses*, in (mm)	0.010 - 0.200 (0.25 - 5.0)	0.020 - 0.200 (0.50 - 5.0)	0.010 - 0.200 (0.25 - 5.0)	0.020 - 0.200 (0.50 - 5.0)	ASTM D374
	Specific Gravity	2.2	2.2	2.9	2.9	ASTM D792
	Hardness	10, Shore 00	25, Shore 00	30, Shore 00	45, Shore 00	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 20 30 50** 65**	% Deflected 10 15 25 35	% Deflected 22 33 55** 68**	% Deflected 7 10 20 30	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)	-67 to 392 (-55 to 200)	Chomerics
	Thermal Conductivity, W/m-K	1.5	1.5	3	3	ASTM D5470
	Thermal Impedance, °C-in <sup>2</sup> /W (°C-cm <sup>2</sup> /W) @ 10 psi, @ 0.04 in (1 mm) thick, "G" version only	1.4 (9.1)	1.4 (9.1)	0.7 (4.5)	0.7 (4.5)	ASTM D5470
Heat Capacity, J/g-K	1	1	1	1	ASTM E1269	
Coefficient of Thermal Expansion, ppm/K	250	250	150	150	ASTM E831	
Electrical	Dielectric Strength, Vac/mil (kVac/mm)	200 (8)	200 (8)	200 (8)	200 (8)	ASTM D149
	Volume Resistivity, ohm-cm	10 <sup>14</sup>	10 <sup>14</sup>	10 <sup>14</sup>	10 <sup>14</sup>	ASTM D257
	Dielectric Constant @ 1,000 kHz	6.5	6.5	8.0	8.0	ASTM D150
	Dissipation Factor @ 1,000 kHz	0.013	0.013	0.010	0.010	CHO-TM-TP13
Regulatory	Flammability Rating	V-0	V-0	V-0	V-0	UL 94
	RoHS Compliant	Yes	Yes	Yes	Yes	Chomerics Certification
	Outgassing, % TML (% CVCM)	0.42 (0.08)	0.35 (0.09)	0.19 (0.06)	0.18 (0.05)	ASTM E595
	Shelf Life, months from date of shipment	36	36	36	36	Chomerics
	Shelf Life, months from date of shipment - "A" aluminum foil carrier version ONLY	18	18	18	18	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)	50 to 90 (10 to 32)	Chomerics	

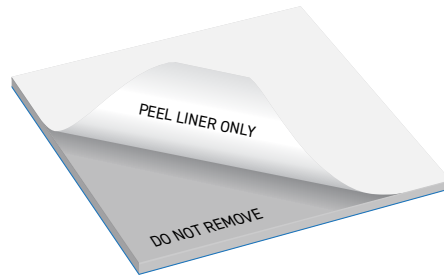
† Typical properties: these are not to be construed as specifications.

# THERM-A-GAP PAD PRODUCT INFORMATION

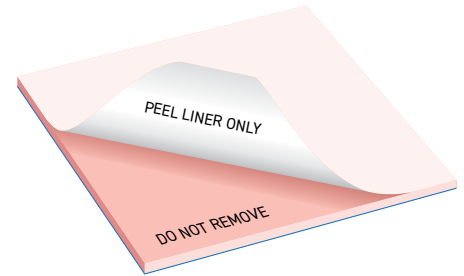
Product examples showing carrier options and liners.



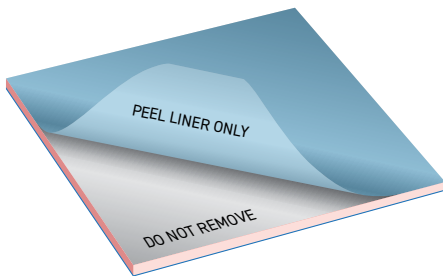
**Blue base liner on all pads**  
remove prior to installation



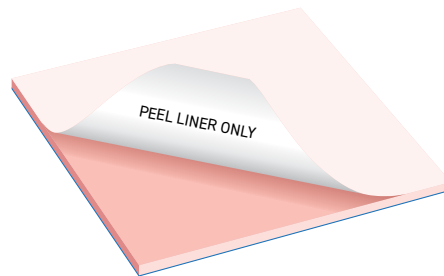
**G569**  
with gray fiberglass carrier, peelable liner



**G579**  
with fiberglass carrier, peelable liner



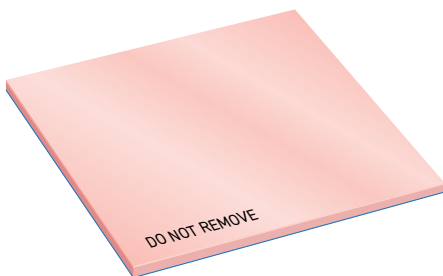
**A579**  
with aluminum PSA carrier, peelable liner



**579**  
unsupported (no carrier), peelable liner



**579KT**  
with thermally enhanced polyimide carrier, no liner



**579PN**  
with PEN film carrier, no liner

## Available Carriers

- G – woven fiberglass (no PSA) – this carrier option provides reinforcement and a clean break / low-tack interface surface, allowing for re-use of the pad if necessary or for prototyping.
- A – aluminum foil (with PSA) – this carrier's primary function is to allow a dedicated pressure sensitive adhesive on the gap pad
- F – Woven glass carrier - centered on thickness. No pressure sensitive adhesive (PSA) option.
- PN – PEN film (polyethylene naphthalate) – this carrier permits the gap pad to see a shearing

motion and offers a clear, cost-effective dielectric film with fair thermal performance.

- KT – thermally enhanced polyimide – this carrier permits the gap pad to see a shearing motion and offers an excellent dielectric film with enhanced thermal performance.
- No carrier (no letter distinction) – the no carrier or "un-reinforced" option allows the gap pad to have high-tack surfaces on both sides, allowing for the pad to be highly conformable, but it does make cutting and handling of the product more difficult.

"A" carrier systems have a 0.005" typical thickness,

transparent, blue Mylar release liner on this side. This is removed prior to use.

"G" carrier systems have a 0.003" typical thickness, opaque, white polyethylene release liner on this side. This is removed prior to use.

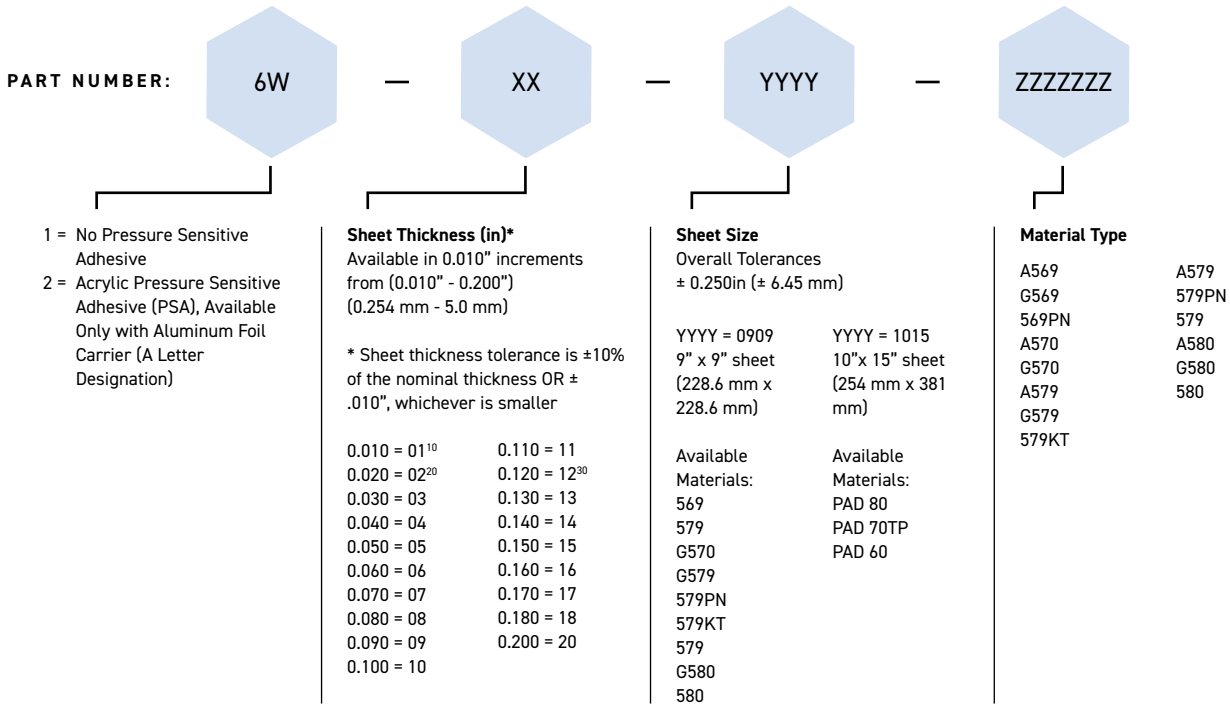
"PN" carrier systems have a 0.001" typical thickness, transparent, clear, polyethylene naphthalate (PEN) film on this side. DO NOT REMOVE.

"KT" carrier systems have a 0.001" typical thickness, transparent, orange, Kapton film on this side. DO NOT REMOVE.

ALL systems have on the non-carrier side, a .014 typical thickness, opaque, blue diamond embossed, poly release liner.

# THERM-A-GAP PAD ORDERING INFORMATION

9" x 12" and 10" x 15" Sheets



<sup>10</sup> Minimum thickness for G569  
<sup>20</sup> Minimum thickness for 569PN, A570, G570, G579, 579PN, A580, G580  
<sup>30</sup> Minimum thickness for 579, 580 (Unsupported)

## Ordering Information: Custom Configurations

Sheet thickness tolerance is ± 10% of the nominal thickness OR ±0.010", whichever is smaller

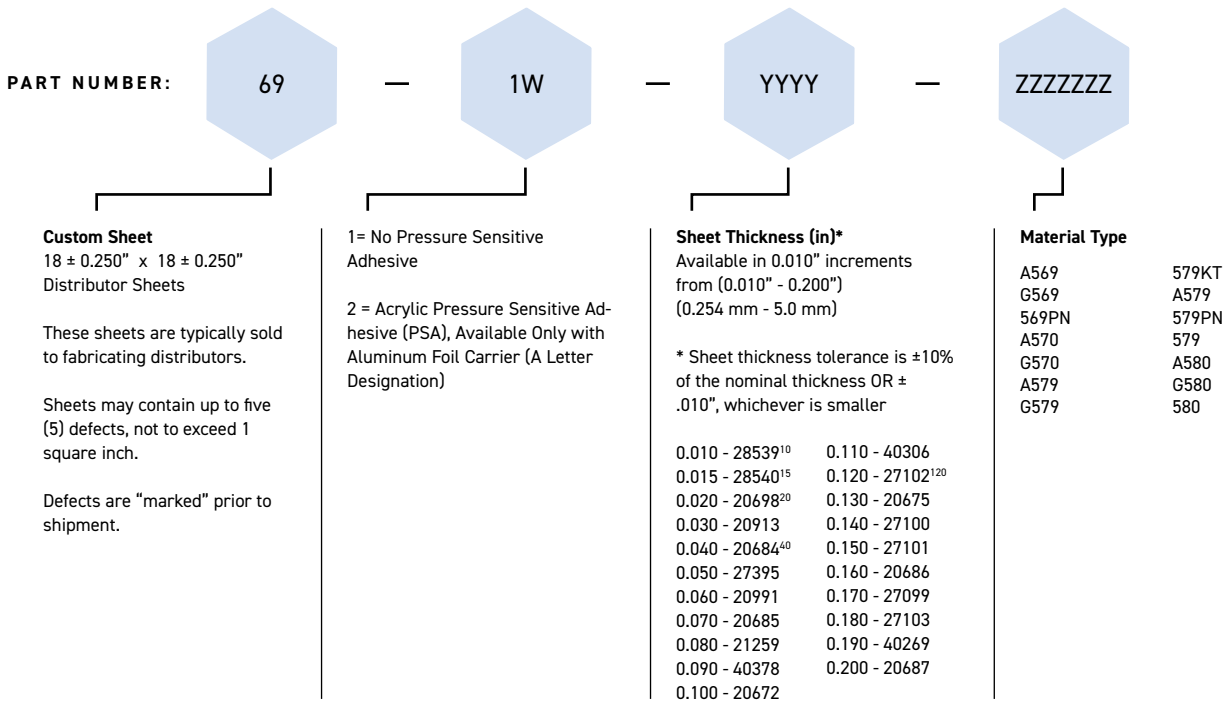
Please contact Parker Chomerics for a pre-assigned part number, for custom widths, lengths and part sizes; etc

Available options include:

\* Custom die-cut parts on sheets, or as individual parts

# THERM-A-GAP PAD ORDERING INFORMATION

18" x 18" Sheets - Pressure Sensitive Adhesive (PSA) 1 Side



<sup>10</sup> Minimum thickness for G569

<sup>15</sup> Minimum thickness for G579

<sup>20</sup> Minimum thickness for 569PN, A570, G570, G579, 579PN, A580, G580

## 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



## We're Here to Help

Scan QR code or visit [parker.com/chomerics](http://parker.com/chomerics) to:

- [Request a Free Sample](#)
- [Talk to an Expert](#)
- [Get a Quote](#)
- [Find Where to Buy](#)

Parker Hannifin Corporation

### Chomerics Division

77 Dragon Court

Woburn, MA 01801

Phone 781 935 4850

Fax 781 933 4318

[chomailbox@parker.com](mailto:chomailbox@parker.com)

[parker.com/chomerics](http://parker.com/chomerics)

CHODS1255 April 2026

©2026 Parker Hannifin Corporation

