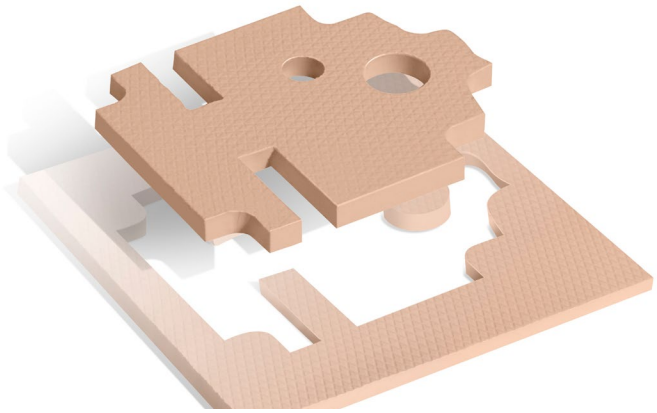
THERM-A-GAP® HCS10

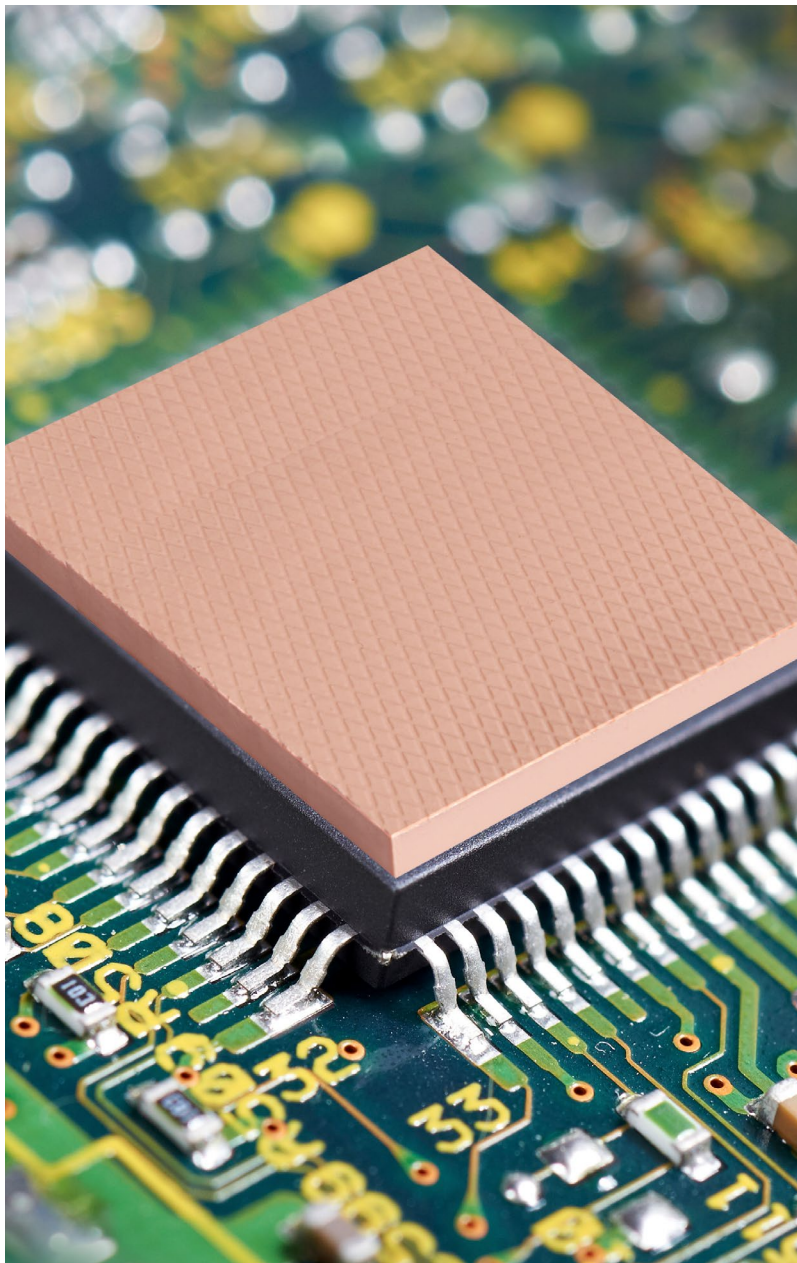
1.0 W/m-K High Performance Ultra Low Hardness Thermal Gap Filler Pad

Parker Chomerics THERM-A-GAP® HCS10 Thermally Conductive Gap Filler Pads provide an ultra low hardness (4 Shore 00) solution with 1.0 W/m-K of thermal conductivity. THERM-A-GAP gap-filler sheets and pads offer excellent thermal properties and the highest conformability at low clamping forces. THERM-A-GAP HCS10 is an economical solution and is the highest conformability gap filler sheet.



THERM-A-GAP HCS10 is available in various thicknesses and finished in standard sheets of 9”x9” or 18”x18”. Custom size configurations and die cut parts are available as individual parts or on sheets. To receive a quote on a custom size part, choose your thickness and carrier options, and then select “custom” size.

Be sure to write in the comments section, upon check out of your quote request, which custom size dimensions you need. Our team will then reach out for your specific drawing to complete your quote request.



Product Features

- Ultra 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 HCS10 PRODUCT INFORMATION

	Typical Properties†	HCS10	Test Method
Physical	Color	Orange / Gray Carrier	Visual
	Binder	Silicone	--
	Carrier Options Supported (standard): G = Woven glass carrier - no PSA A = Aluminum foil carrier - with acrylic PSA	 HCS10A HCS10G	--
	Standard Thicknesses*, in (mm)	0.010 - 0.200 (0.25 - 5.0)	ASTM D374
	Specific Gravity	2.0	ASTM D792
	Hardness, Shore 00	4	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 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)	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	5.3	ASTM D150
	Dissipation Factor @ 1,000 kHz	0.013	CHO-TM-TP13
Regulatory	Flammability Rating	V-0	UL 94
	RoHS Compliant	Yes	Chomerics Certification
	Outgassing, % TML (% CVCM)	0.44 (0.13)	ASTM E595
	Shelf Life, months from date of shipment	36	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.

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THERM-A-GAP HCS10 ORDERING INFORMATION

9”x9” Sheets - THERM-A-GAP HCS10

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)

* Sheet thickness tolerance is ±10% of the nominal thickness OR ± .010”, whichever is smaller

0.010 = 01	0.110 = 11
0.020 = 02[20]	0.120 = 12
0.030 = 03	0.130 = 13
0.040 = 04	0.140 = 14
0.050 = 05	0.150 = 15
0.060 = 06	0.160 = 16
0.070 = 07	0.170 = 17
0.080 = 08	0.180 = 18
0.090 = 09	0.200 = 20
0.100 = 10	

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

9” x 9” sheet
(228.6 mm x 228.6 mm)

Material Type

HCS10A
HCS10G

[20] Minimum thickness for HCS10G

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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