

THERM-A-GAP™ 974, G974 and 976 Thermally Conductive Gap Filler Pads					
Typical Properties		974	G974	976	Test Method
Physical	Color	Blue	Blue	Gold	Visual
	Carrier	PSA	Fiberglass with PSA	None	--
	Standard Thicknesses*, in (mm)	0.020 - 0.060 (0.51 - 1.52)	0.010 - 0.100 (0.25 - 2.54)	0.040 - 0.200 (1.00 - 5.08)	ASTM D374
	Specific Gravity	1.40	1.40	1.30	ASTM D792
	Hardness, Shore A	40	40	10	ASTM D2240
	Penetrometer, mm	25	25	60	Chomerics
	Percent Deflection @ Various Pressures (0.060 in thick sample) @ 5 psi (34 kPa) @ 10 psi (69 kPa) @ 25 psi (172 kPa) @ 50 psi (345 kPa)	% Deflected 7 11 12 13	% Deflected 7 11 12 13	% Deflected 6 10 11 45	ASTM C165 MOD (0.060" thick, 0.50 in diameter, 0.025 in/min rate)
Thermal	Thermal Conductivity, W/m-K	6.0	5.0	6.5	ASTM D5470
	Thermal Impedance, °C-in ² /W (°C-cm ² /W) 50 psi (@ 345 kPa), 0.040 in (1 mm)	0.45 (2.9)	0.51 (3.3)	0.30 (1.9)	ASTM D5470
	Heat Capacity, J/g-K	0.9	0.9	0.9	ASTM E1269
	Coefficient of Thermal Expansion, ppm/°C	100	100	100	ASTM E831
	Operating Temperature Range, °F (°C)	-67 to 392 [-55 to 200]	-67 to 392 [-55 to 200]	-67 to 392 [-55 to 200]	--
Electrical	Dielectric Strength, Vac/mil (kVac/mm)	200 (5.1)	200 (5.1)	200 (5.1)	ASTM D149
	Volume Resistivity, ohm-cm	10 ¹⁴	10 ¹⁴	10 ¹⁴	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	Chomerics Test
Regulatory	Flammability Rating (See UL File E140244 for Details)	Not Tested	V-0	V-0	UL 94
	Outgassing, % TML (% CVCM)	0.59 (0.18)	0.59 (0.18)	0.64 (0.21)	ASTM E595
	RoHS Compliant	Yes	Yes	Yes	Chomerics Certification
	Shelf Life, months from date of shipment	12	12	24	Chomerics

*Thickness tolerance, in. (mm) ±10% nominal thickness @ 2.5mm (100 mil) or less;
± 0.25mm (10mil) @ nominal thickness greater than 2.5mm (100 mil). Custom thicknesses may be available upon request.