HumiSeal® ThermoSink

Thermal gap fillers and **thermal gap pads** are used to efficiently transfer heat away from critical electronic components, improving performance and reliability in thermally demanding applications. By filling air gaps between heat-generating components and heat sinks or enclosures, these materials provide enhanced thermal conductivity while accommodating surface irregularities and tolerances. Their range of form factors—from dispensable materials to pre-formed pads—enables flexible integration into automated assembly processes and consistent thermal management across designs. Filler gels are fully cured as-received, and remain a gel consistency for maximum stress relief.

	PRODUCT	W/mK	KEY FEATURES
DISPENSABLE SILICONE GAP FILLER GELS	**TG500R**	5.0	2-part silicone gel. Low viscosity to fill gaps between electronic components or heat spreaders. 24-hour cure at room temperature. Non-adhering to substrates for easy removal in the field.
	TG400	4.0	Electrically insulating, low bleed, 0.1mm min BLT, fully cured
	TG700	7.0	Electrically insulating, low bleed, 0.1mm min BLT, fully cured
	TG1200	12	Electrically insulating, low bleed, 0.1mm min BLT, fully cured
FIBERGLASS-SUPPORTED THERMAL PADS	**TP2200**	1.6	Centered fiberglass support layer, fully cured/no silicone oil pumpout
UNSUPPORTED THERMAL PADS	**TP4020**	2.0	V0, OO30 Shore hardness, electrically insulating, highly compliant for reduced stress
	TP4021	2.0	V0, OO30 Shore hardness, electrically insulating, easily compresses between surfaces
	TP4050	5.0	V0, OO50 Shore hardness, electrically insulating, maintains performance from -50°C to 200°C
	TP4080	8.0	V0, OO55 Shore hardness, electrically insulating, power electronics and LED lighting modules
	TP4100	10	V0, OO55 Shore hardness, electrically insulating, industrial and automotive high heat output
	TP4150	15	V0, OO65 Shore hardness, electrically insulating, high-power industrial max heat management

Thermally-Conductive Thermosink™ Series | Thermal conductivities of 2.8-3.5W/mK in an easily flowable, resin system.

	PRODUCT	DESCRIPTION	FILLED	COLOR	MIX RATIO BY WT.	VISCOSITY (cPs)	POT LIFE @ 22°C (100g)	DUROMETER	MAX OPERATING TEMP (°C)	CURE SCHEDULE (22°C)	CURE SCHEDULE, HEATED
SILICONE THERMAL POTTING	**Thermosink™ 35-4**	Pedigreed product for automotive inverters, 3.4W/m.K	✓	Pink	1:1	40,000	10 min	A50	200	2 hr	5 min @ 125°C
	Thermosink™ 35-6	High performing electricals and E595 compliant, 3.5W/m.K	✓	Gray	1:1	30,000	30 min	A70	200	2 hr	45 min @ 100°C
	Thermosink™ 35-7H	Best in class flow for intricate circuitry & E595, 2.8W/m.K	✓	Gray	1:1	9,000	60 min	A20	200	4-6 hr	45 min @ 100°C

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