



TIF®040-12 is a soft silicone gel-based gap filler pad, formulated with a special blend of fillers to provide both excellent thermal conductivity and superior softness. Compared to conventional thermal greases, TIF®040-12 has a higher viscosity, which effectively prevents filler separation from the silicone matrix and reduces filler migration, helping maintain consistent thermal performance. It is applied in a similar manner to thermal grease and is suitable for commercial dispensing or automated equipment. Typical applications include flip-chip microprocessors, PPGAs, micro BGA packages, BGA packages, DSP chips, circular silicon chips, LED lighting, and other high-power electronic components.

Feature

- › Thermal conductivity: **4.0 W/mK**
- › Soft, very low compression
- › Low thermal impedance
- › Operate automatically
- › Proven long-term reliability

Application

- › Heat-sink & frame
- › LED backlight module, LED lighting
- › High speed hardware driver
- › Micro heat pipe
- › Vehicel enginee controller
- › Telecom industry
- › Semiconductor automatic laboratory equipment

TIF®040-12 TYPICAL PROPERTIES

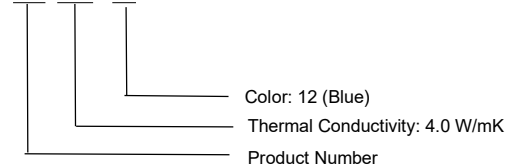
Property	Value	Test Method
Color	Blue	Visual
Construction & Composition	Ceramic filled silicon material	-
Flow Rate (g/min)	60	Ziitek Test Method (30 cc syringe/ 2.5 mm orifice/ 90 psi)
Density (g/cc)	3.20	ASTM D792
Thermal Conductivity (W/mK)	4.0	ASTM D5470
Thermal Impedance @10psi (°C·in ² /W)	0.093	ASTM D5470
Thermal Impedance @50psi (°C·in ² /W)	0.086	ASTM D5470
Recommended Operating Temp (°C)	-45 ~200	Ziitek Test Method
Dielectric Strength (V/mm)	≥4000	ASTM D149
Bond Line Thickness (mm)	0.20	Ziitek Test Method
Flame Rating	V-0	UL94
Shelf Life	12 months	-

Product Specification:

- 30 cc/pcs, 98 pcs/box; 300 cc/pcs, 6 pcs/box.
- Custom packaging available for automation use. Please contact us for confirming.
- If you want to know our thermal products, please visit our website.

Product Identifier:

TIF 040 - 12



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