



TIF[®]090-11 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[®]090-11 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

- » Excellent thermal conductivity
- » Soft, very low compression
- » Low thermal impedance
- » Operate automatically
- » Proven long-term reliability

Application

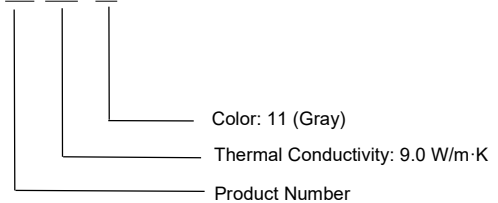
- » Heat-sink & frame
- » LED backlight module, LED lighting
- » High speed hardware driver
- » Micro heat pipe
- » Vihicel enginee controller
- » Telecom industry
- » Semiconductor automatic laboratory equipment

TIF[®]090-11 TYPICAL PROPERTIES

Property	Value	Test Method
Color	Gray	Visual
Construction & Composition	Ceramic filled silicon material	-
Flow Rate (g/min)	20	Ziitek Test Method (30 cc syringe/ 2.5 mm orifice/ 90 psi)
Density (g/cm³)	3.45	ASTM D792
Thermal Conductivity (W/m·K)	9.0	ASTM D5470
Thermal Impedance @10psi (°C·in²/W)	0.089	ASTM D5470
Thermal Impedance @50psi (°C·in²/W)	0.055	ASTM D5470
Recommended Operating Temp (°C)	-45 ~200	-
Breakdown Voltage (V/mm)	≥4000	ASTM D149
Bond Line Thickness (mm)	0.40	Ziitek Test Method
Flame Rating	V-0	UL94
Shelf Life	12 months	-

Product Identifier

TIF 090 - 11



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