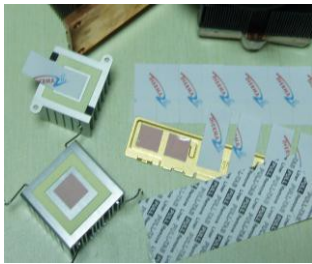


**TIC™ 820P series** is low melting point thermal interface material. At 50°C, TIC™ 820P series begins to soften and flow, filling the microscopic irregularities of both the thermal solution and the integrated circuit package surface, thereby reducing thermal resistance. TIC™ 820P series is a flexible solid at room temperature and freestanding without reinforcing components that reduce thermal performance.

**TIC™ 820P Series** shows no thermal performance degradation after 1,000 hours@130°C, or after 500 cycles, from -25°C to 125°C. The material softens and does not fully change state resulting in minimal migration (pump out) at operating temperatures.



### Applications Include:

- » High Frequency Microprocessors
- » Notebook and Desktop PCs
- » Computer Servers
- » Memory Modules
- » Cache Chips
- » IGBTs

### For Lowest Thermal Resistance :

- » **0.183°C-in<sup>2</sup> /W** thermal resistance
- » Naturally tacky at room temperature, no adhesive required
- » No heat sink preheating required

## Typical Properties of TIC™ 820P Series

Product Name	TIC™ 820P	Test Method
Color	Pink	Visual
Thickness	0.020" (0.50mm)	*****
Thickness Tolerance	±0.0020" (±0.050mm)	*****
Density	2.2g/cc	Helium Pycnometer
Temperature range	-25°C~ 125°C	*****
Phase Change Softening Temperature	50°C ~ 60°C	*****
Thermal Conductivity	0.95W/mK	ASTM D5470 (modified)
Thermal Impedance @ 50 psi(345 KPa)	0.183°C-in <sup>2</sup> /W 1.18°C-cm <sup>2</sup> /W	ASTM D5470 (modified)

**Standard Thicknesses:** 0.020" (0.50mm)

Consult the factory alternate thickness.

### Standard Sizes:

12" x 16" (304.8mm x 406mm) 12" X 400' (304.8mm X 121.92M)

TIC™ 820P series are supplied with a white release paper and a bottom liner. TIC™ 820P series is available inkless cut an extended pull tab liner or individual die cut shapes.

### Peressure Sensitive Adhesive:

Peressure Sensitive Adhesive is not applicable for TIC™ 820P series products.

### Reinforcement:

No reinforcement is necessary.

## Gap Fillers | Phase Change Materials | Thermally Conductive Insulators | Thermally Conductive Greases | Thermally

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