

### Material Features:

- Low pressure capabilities
- Low thermal resistance
- Good thermal stability

### Applications

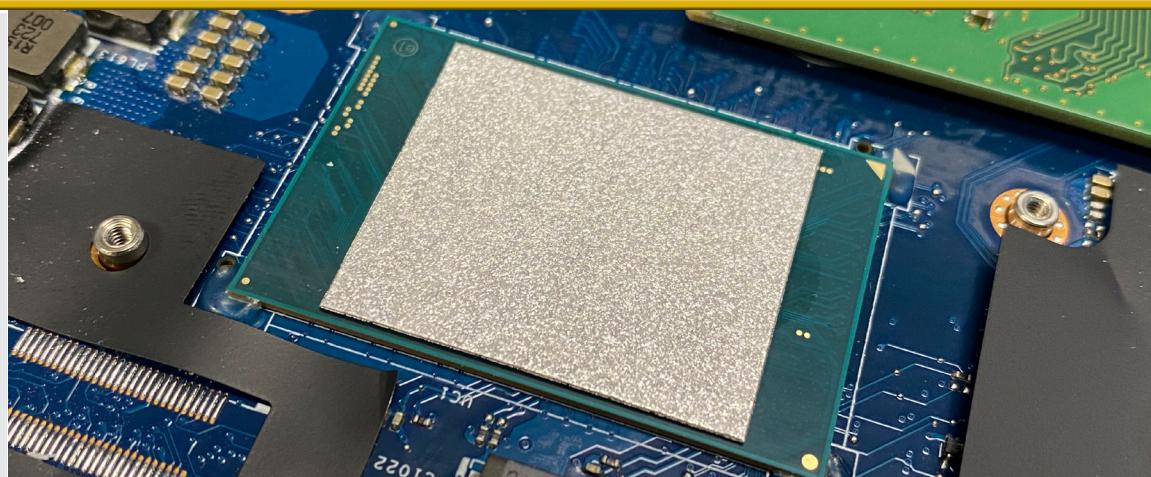
- Graphic Processors
- Base stations
- Microprocessors
- Laptops, CPU/APUs

### Storage Conditions:

- Store in dark environment
- Storage Temperature:  $\leq 30^{\circ}\text{C}$
- Storage Humidity:  $\leq 70\%$

### Shelf Life:

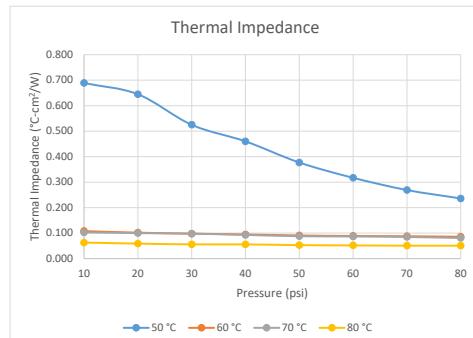
- Stored at storage conditions:  
one year



### TCI Series

Leader Tech's TCI series is a new type of composite indium sheet capable of transitioning from solid to liquid at its melting point and back to solid again at room temperature. Capable of uniform thermal resistance at compressed environments where low stress is applied.

Part Series	Test Method	TCI800
<b>Thermal Properties</b>		
Thermal Conductivity Z axis (W/m-K)	ASTM D 5470	$\geq 80$
Thermal Conductivity X axis (W/m-K), Y axis (W/m-K)	ASTM D 5470	80
Thermal Impedance ( $^{\circ}\text{C}\cdot\text{cm}^2/\text{W}$ ; @50psi)	ASTM D 5470	$\leq 0.04$
<b>Physical Properties</b>		
Color	Visual	Bright Silver
Thickness Range (in, (mm))	ASTM D 374	0.008-0.020 (0.2-0.5)
Width & Length (in, (mm))	N/A	5.91 x 5.91 (150 x 150)
Density (lb/in <sup>3</sup> , (g/cc))	ASTM D 792	0.264 (7.3)
Operating Temperature ( $^{\circ}\text{F}$ ( $^{\circ}\text{C}$ ))	IEC60068-2-14	-58 to 932 (-50 to 500)
Melting Point ( $^{\circ}\text{F}$ ( $^{\circ}\text{C}$ ))	GB/T6 1425-1996	176 (80)
Electrical Resistivity (ohm-m)	GB/T6 146-2010	$8.4 \times 10^{-8}$
Shelf Life (Months)	N/A	12
Compressive Stress % (@50psi)	ASTM D 575	20



Samples size:25.4mm\*25.4mm, Thickness:0.25mm

**STATEMENT OF LIEU OF WARRANTY:** All technical information and data in this document is based on tests and is believed to be accurate and reliable. Nevertheless, since the products described herein are not provided to conform with mutually accepted specifications and the use thereof is unknown, the manufacturer and seller of the products do not guarantee results, freedom from patent infringement, or suitability of the products for any application thereof. The manufacturer and seller of the products described in this document will provide all possible technical assistance and will replace any products proven defective. No statement or recommendations made by the manufacturer or seller not contained herein shall have any force or effect unless in conformity with an agreement signed by an officer of the seller and manufacturer. Product testing by the purchaser is recommended in order to confirm expected results.



*The Leading Edge In EMI/RFI  
Shielding Technology*

[www.LeaderTechInc.com](http://www.LeaderTechInc.com)