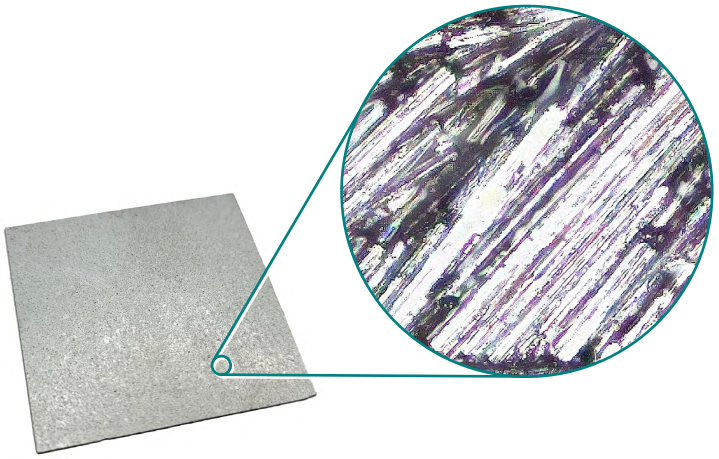
BOSTON MATERIALS

IMPORTANT
ZRT Liquid Metal is a solid film which melts at 30C (86F).
The material must be kept in a temperature-controlled environment (safest in a fridge/freezer).
Avoid physical handling as body heat will melt the film. Handle with tweezers or similar tool.

ZRT® Liquid Metal Film TIM

Technical Data Sheet



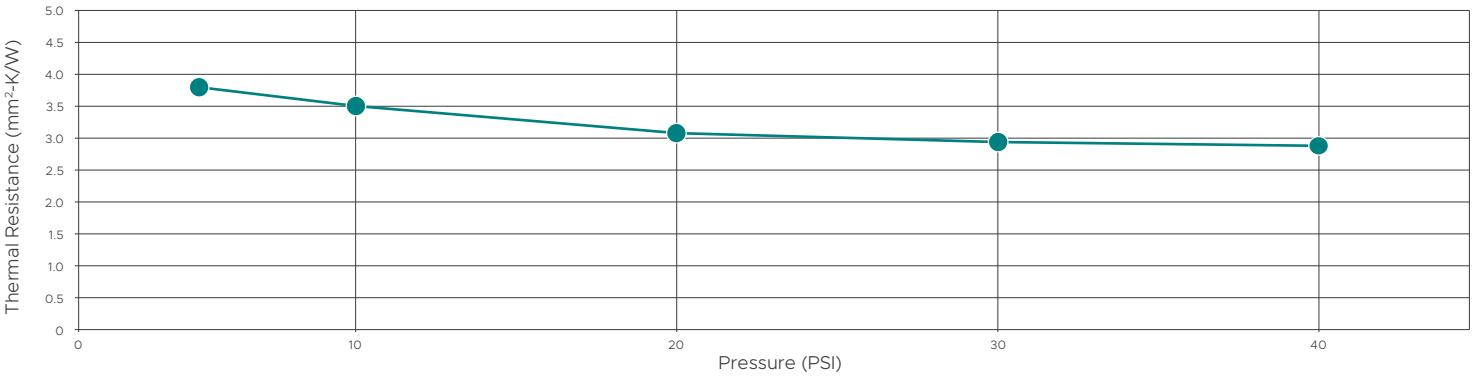
Description

- Boston Materials patented Z-axis™ Fiber technology.
- Pitch based carbon fibers (900 W/m-K thermal conductivity) are aligned orthogonal to the film surface and embedded within a gallium alloy matrix
- TIM material optimized for TIM1/1.5 applications requiring low thermal resistance, low voiding, high surface coverage, and high reliability.

Properties

Property	27-0013-00	Units
Z-Axis Fiber	Pitch Carbon Fiber (900 W/mK)	-
Matrix	Gallium Alloy	-
Max Continuous Operating Temp	500+	°C
Thermal Resistance (ASTM D5470 fixture, 40PSI/85°C)	2.8	mm^2-K/W
Thickness (free state)	170	µm
Compressibility between 5-85 PSI	In Progress	%

Thermal Performance



Tested using ASTM D5470 fixture. Thermal resistance values include contact resistance

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