ZRT® Adhesive 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 pressure sensitive adhesive film
- TIM material optimized for TIM1/1.5 applications requiring low thermal resistance, low voiding, high surface coverage, and high reliability.



Properties

Property	27-0012-00	Units
Z-axis Fiber	Pitch Carbon Fiber (900 W/mK)	-
Polymer Type	Acrylic Based Pressure Sensitive Adhesive	
Max Continuous Operating Temp	150	°C
Thermal Resistance (ASTM D5470 fixture, 85PSI/85°C)	9.7	mm²-K/W
Thickness (free state)	158	μm
Compressibility between 5-85 PSI	7	%
Thermal Conductivity (ASTM E1461)	In Progress	W/m-К

Application Note



Required Bonding Process

ZRT Adhesive Film TIM exhibits consistently lower thermal resistance after an initial bonding step (>50psi @ >85°C for >30 sec)

The information provided herein is, to the best of our current knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control and there are many factors affecting application and processing of our product, we make no guarantee of results, and assume no liability for damages incurred by following these suggestions and using our products. We strongly recommend processors carry out their own tests and investigations.