NANOTEST
Berliner Nanotest und Design GmbH

TIMA® 5

Thermal Interface Material Analyzer

Model 5

The first convenient
automated
all-in-one
ASTM D 5470 test system.

Simple yet versatile

TIMA is a comprehensive laboratory and industrial measurement tool providing a wide range of thermal measurements and analyses to be performed with highest scientific standard.

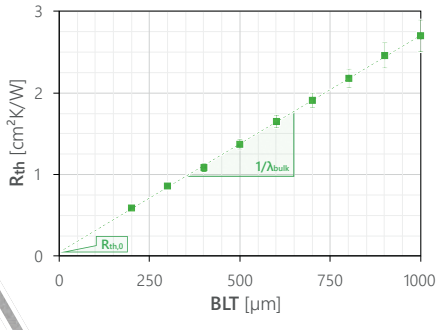
- Greases and pastes
- Cured gap fillers and adhesives
- Anisotropic composites
- Phase change materials
- Overall thermal resistance
- Effective thermal conductivity
- Thermal interface resistance
- Bulk thermal conductivity
- Curing parameters study
- Boundary conditions study
- In-situ reliability investigation
- Extreme conditions testing

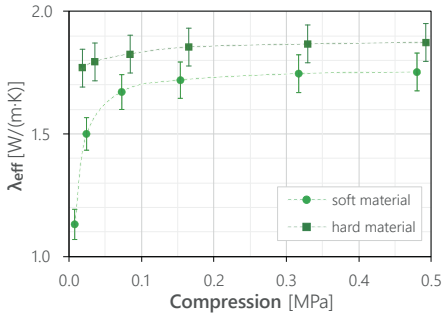


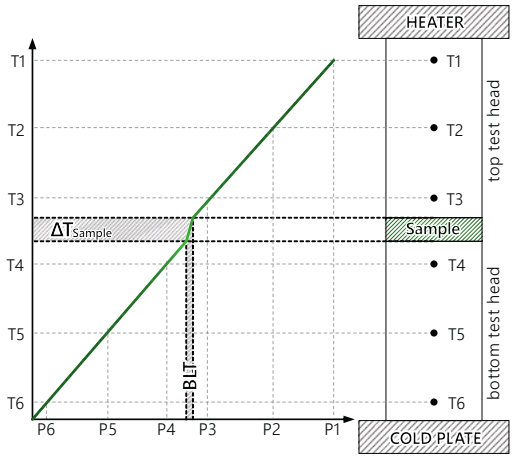

ASTM D 5470 Standard Conforming and Beyond

TIMA 5 fully meets the established test methodology described in ASTM Standard D 5470-17, while also providing fully automated characterization and many additional features not described in the ASTM Standard.

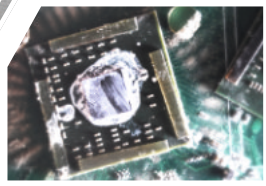
- Full coverage of specification range
- Fully automated measurement
- Up to 150°C sample temperature
- ± 300 N clamping and tensile force
- Scientific standard accuracy estimation
- Highly user-friendly, robust, and reliable





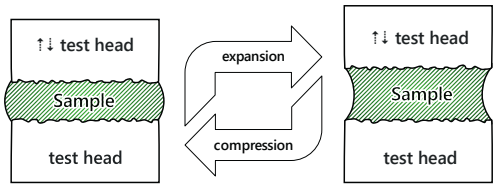


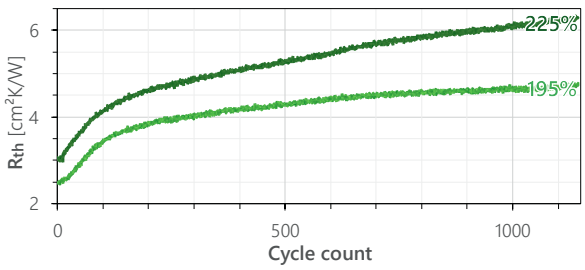
Ageing and Reliability Investigations



TIMA allows accelerated lifetime testing for thermal interface materials exposed to thermo-mechanical stress by emulating mechanical strain from in-field application.

- In-situ monitoring of aging / degradation
- Highly accelerated: 500 cycles per day
- Application-related testing conditions
- Thickness- and pressure-controlled cycling





nanotest.eu/tima

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