

TIMA® 5



Thermal Interface Material Analyzer

Model 5

The first convenient automated all-in-one ASTM D5470 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





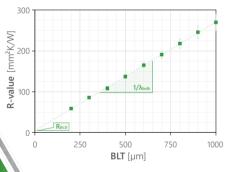


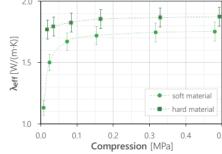


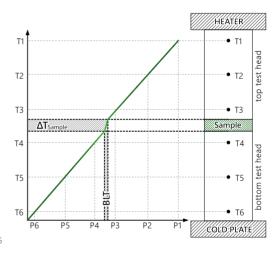
ASTM D5470 Standard Conforming and Beyond

TIMA 5 fully meets the established test methodology described in ASTM Standard D5470-17, 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







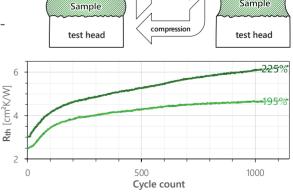
expansion

Ageing and Reliability Investigations



TIMA allows accelerated lifetime testing for thermal interface materials exposed to thermomechanical 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 pressurecontrolled cycling



□□ test head

nanotest.eu/tima

□□ test head

Sample