NANOTEST

*simply measured.*


# TIMA® 5

## Thermal Interface Material Analyzer

Reach beyond ASTM D5470

Reliable. Repeatable. Reproducible

# Simplistic, 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.

## Sample range

- Greases and pastes
- Cured gap fillers and adhesives
- Anisotropic composites
- Phase change materials

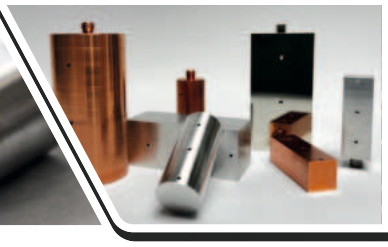
## Output figures

- Overall thermal resistance
- Effective and bulk thermal conductivity
- Thermal interface resistance
- Pressure and temperature dependency

## Advanced applications

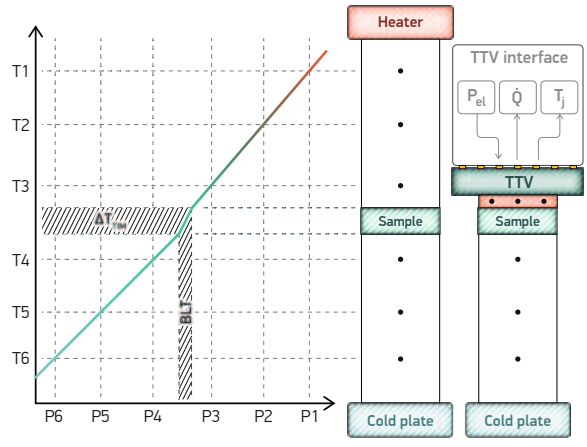
- Curing parameters study
- Boundary conditions study
- In-situ reliability investigation
- Extreme conditions testing





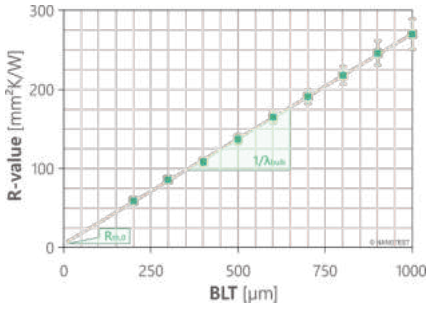

## ASTM D5470 Standard Conforming and Beyond

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, such as the optional TTV module, that creates a realistic test scenario for material applied as TIM1 directly on a die surface.

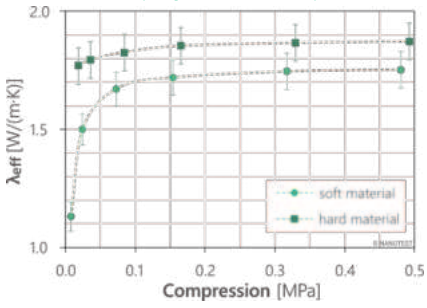


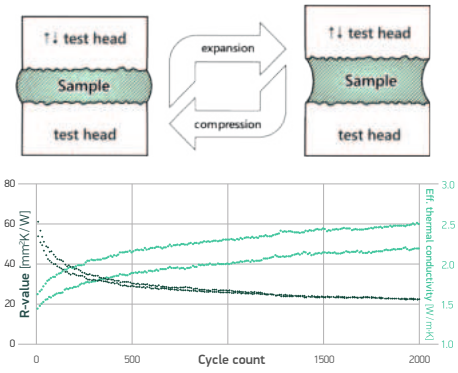

- Interchangable test heads
- High-precision curing tool
- Optional TTV module
- Fully automated measurement
- Up to 150°C sample temperature
- ± 300 N clamping and tensile force with integrated load cell

*Thermal resistance vs. thickness*




*Thermal performance vs. pressure*




## Ageing and Reliability Investigation

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: 5000 cycles per day
- Application-related testing conditions
- Thickness- and pressure-controlled cycling

learn more

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