

Thermal Diffusivity Measurement

NETZSCH LFA 447 Nanoflash

Principle

Determination of the thermal diffusivity using the flash method for the calculation of the thermal conductivity by multiplication of the thermal diffusivity, specific heat and density.

Manufacturer	NETZSCH
Temperature Range	RT to 300 °C
Atmosphere	<ul style="list-style-type: none">• Synthetic air• Inert in inert sample carrier• <i>Vacuum</i>
Measuring Range	Thermal diffusivity -> up to 1000 mm ² /s Thermal conductivity -> up to 2000 W/mK
Heating Rate	up to 20 K/min
Samples	Round [mm]: 8; 11; 12,7; 15; 20 Square [mm]: 11; 15; 20 Thickness [mm]: <i>plane-parallel between 0.1 and 3</i>