Hot Disk®

TPS 2200

Hot Disk Thermal Constants Analyser

www.hotdiskinstruments.com

Thermal Constants Analyser

TPS 2200

Economical Standardised Thermal Constants Analyser

The Hot Disk TPS 2200 is an general-purpose R&D instrument designed for precision analysis of thermal transport properties. Including thermal conductivity, thermal diffusivity and specific heat capacity, the TPS 2200 covers a significant span of materials of various geometries and dimensions, including solids, pastes and liquids.

The TPS 2200 is especially suited for measurements of larger bodies of extruded polymers, building- and insulation materials, sheet metals, laminated samples etc. The instrument is also able to tackle many high-conductivity samples and medium- to high-viscosity liquids.

A selection of optional measurement modules allows the TPS 2200 to be used in several specialized applications, from precise testing of isotropic materials (Isotropic module), to measurements of slab samples (Slab module); anisotropic samples or layered structures (Anisotropic module); thin films or coatings (Thin Film module). And extremely light and low-conducting materials (Low-density/Highly-insulating module). Also featured is direct testing of specific heat capacity of bulk samples (Cp module).

For further information regarding the range of Hot Disk instruments, kindly se the Comparison Chart at www.hotdiskinstruments.com

The Hot Disk Sensor

THERMAL CONSTANTS ANALYSER

TPS 2200

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Thermal Conductivity	0.01 to 500 W/m/K.
Thermal Diffusivity	0.1 to 300 mm²/s.
Specific Heat Capacity	Up to 5 MJ/m³K.
Measurement Time	2.5 to 1280 seconds.
Reproducibility	Typically better than 1%.
Accuracy	Better than 5 %.
Temperature Range	-50 °C to 750 °C
Core Instrument	Ambient
With Furnace	Ambient to 750 °C.
With Circulator	-35 °C to 200 °C.
Power Requirements	Adjusted to the line voltage in the region of use.
Smallest Sample Dimensions	2 mm x 8 mm diameter or square for bulk testing. 0.1 mm x 15 mm diameter or square for slab testing 0.02 mm x 22mm diameter or square for thin-film testing.
Sensor Types Available	Kapton sensors: 7577, 5465, 5501, 8563, 4922, 5599. Mica sensors: 5465, 5082, 4921, 4922, 5599. Teflon sensors: 7577, 5465, 5501.

Meets ISO Standard 22007-2.

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