

Understanding the Sample Static State to the Stopper

Challenge



We want to grasp the sample static state on the stopper (elastic body)

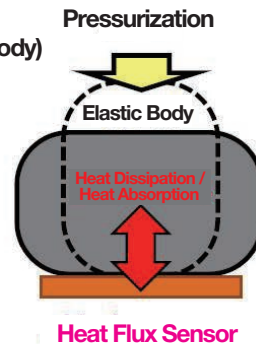
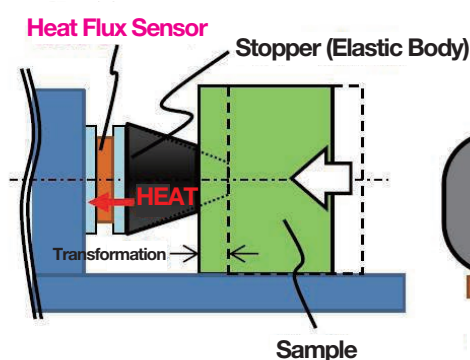
Troublesome to measure using Vibrometer, Load meter, etc.

It would be great to easily understand the sample static state

The Heat flux sensor Solution!



The method of finding out the static state of the sample on the elastic body



Heat dissipation / heat absorption occurred during deformation

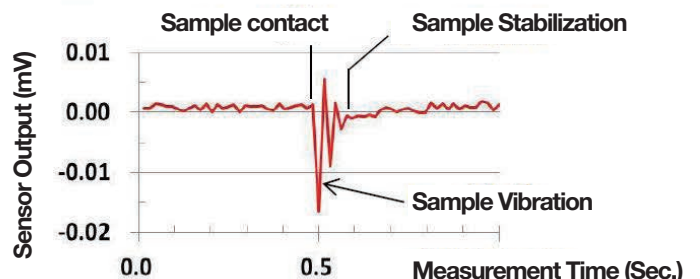
Detection through Heat flux sensor attached to elastic body

Deformed State is made visible!

Evaluation Results

- Visualize whether the stopper & sample are contacting
- Visualize Sample Vibration Status, etc

Note: A case where an amplifier may be separately required might arise



We could understand the sample static state by sticking a heat flux sensor to the stopper

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