

Thermal Analysis at Intertek MSG

A portfolio of techniques used to measure the physical properties of materials versus temperature, time and environment.



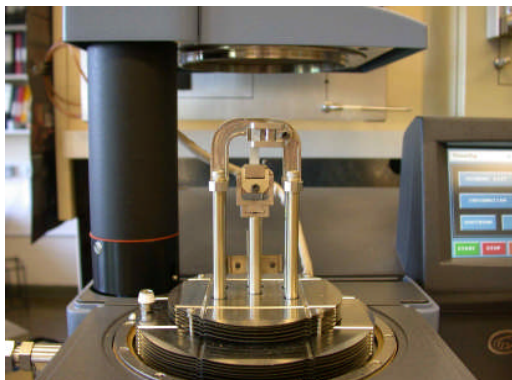
Methods

- Differential Scanning Calorimetry,
- Thermomechanical Analysis,
- Thermogravimetric Analysis,
- Dynamic Mechanical Analysis



The MSG advantage

- DSC is used to identify morphological changes in a specimen and endothermic and exothermic events
- TMA measures dimensional change along one axis of a specimen
- TGA measures specimen weight change (with simultaneous DTA)
- DMA determines real and imaginary components of the complex modulus E^* within viscoelastic materials



Applications of Thermal analysis

- Evaluating melting points, glass transition, crystallinity, thermal history, nucleation, enthalpy of fusion or re-crystallisation, specific heat capacity
- Measurement of coefficient of thermal expansion, shrinkage data, anisotropy due to fillers/reinforcing materials, softening temperatures
- Determination of thermal stability / thermal oxidative stability, thermal transitions, solvent loss, water / filler content, organic / inorganic ratios
- Characterisation of stiffness and damping properties, molecular phase interactions by mechanical loss

Interested in knowing more?

Please call

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