



Thermal Characterization of Polymers

SPECIALIZED SERVICES IN THERMAL ANALYSIS OF POLYMERIC MATERIALS

KEY WORDS

THERMOGRAVIMETRI
C ANALYSIS,

DIFFERENTIAL
SCANNING
CALORIMETRY,

THERMAL
CONDUCTIVITY

DESCRIPTION

The University of Aveiro offers specialized services in thermal analysis of materials, providing advanced characterization through Thermogravimetric Analysis (TGA), Differential Scanning Calorimetry (DSC), and Differential Thermal Analysis (DTA). These techniques allow for the precise evaluation of thermal stability, phase transitions, and compositional changes in a variety of materials. Analyses can be performed under controlled atmospheres (nitrogen, carbon dioxide, oxygen, and air) to simulate diverse processing or application conditions. Furthermore, these measurements can be complemented with thermal conductivity and effusiveness analyses.

AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Thermogravimetric analysis (TGA)
- Differential scanning calorimetry (DSC)
- Differential thermal analysis (DTA)
- Thermal conductivity measurement

APPLICATIONS

- Characterization of materials
- Quality control
- New product development
- Process optimization
- Scientific and industrial research

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