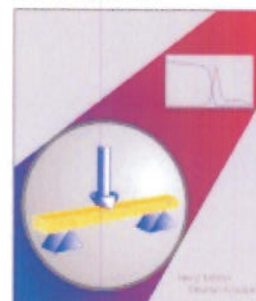


Applications Volume Focus on:

Thermal Analysis for Polymers

Editors: H. Möhler, S. Knappe

Focus on
**Thermal Analysis
for Polymers**



The status of thermal analysis in polymer technology has clearly risen internationally over the past ten to fifteen years. In particular, DSC (Differential Scanning Calorimetry) has long been successfully applied in routine testing of goods received, quality control and quality assurance at injection molding and extrusion processors. In the rubber industry, quantitative analysis of rubber by means of TG (Thermogravimetry) and verification of vulcanization using DSC are becoming increasingly important.

The curing of thermosets is being investigated with DSC, aided by reaction kinetics. DMA (Dynamic Mechanical Analysis) and TMA (Thermomechanical Analysis) are being used more and more frequently, especially with composite materials and in blend technology.

In literature, thermal analysis has almost always been considered separately. In the applications volume, "Focus on: Thermal Analysis for Polymers", released 1998 by the Fachhochschule Würzburg-Schweinfurt-Aschaffenburg, Studiengang Kunststofftechnik and NETZSCH-Gerätebau GmbH, practical industrial topics will be used to explain correlations between thermoanalytical measurement techniques and conventional test methods used in mechanics, physical chemistry and process technology. In addition, examples will be presented dealing with material and component development. The significance of thermal analysis as a quick, economical test method will be emphasized.

Please read also the English translation of the book review "Focus on: Thermal Analysis for Polymers" by Martin Dohn, Dingolfing, published in German language in the GEFTA Notes 2/2000.

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Focus on

Thermal Analysis for Polymers

H. Möhler, S. Knappe

The significance of thermal analysis in polymer technology has clearly risen internationally over the past twenty years. In particular, DSC (Differential Scanning Calorimetry) has long been successfully applied in routine testing of goods received, quality control and quality assurance at injection molding and extrusion plants. In the rubber industry, quantitative analysis of rubber by means of TGA (Thermogravimetric Analysis) and verification of vulcanization using DSC are becoming increasingly important. The curing of thermosets is investigated with DSC, aided by reaction kinetics. DMA (Dynamic Mechanical Analysis) and TMA (Thermomechanical Analysis) are used more and more frequently, especially with composite materials and in blend technology.

In literature, thermal analysis has always been treated almost exclusively in isolation. In the applications volume "Focus on: Thermal Analysis for Polymers", released in 1998 in cooperation with the Department of Plastics and Rubber Engineering of the Würzburg-Schweinfurt-Aschaffenburg / University of Applied Sciences, practical industrial topics are used to explain correlations between thermoanalytical measurement techniques and conventional test methods used in mechanics, physical chemistry and process technology. In addition, examples are presented dealing with material and component development. The significance of thermal analysis as a quick, economical test method is emphasized.

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