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Plastics — Thermogravimetry (TG) of polymers —

Part 3:

Determination of the activation energy using the Ozawa-Friedman plot and analysis of the reaction kinetics

Plastiques — Thermogravimétrie (TG) des polymères —

*Partie 3: Détermination de l'énergie d'activation à l'aide du
graphique d'Ozawa-Friedman et analyse cinétique de la réaction*



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Foreword

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ISO 11358 consists of the following parts, under the general title *Plastics — Thermogravimetry (TG) of polymers*:

- *Part 1: General principles*
- *Part 2: Determination of activation energy*
- *Part 3: Determination of the activation energy using the Ozawa-Friedman plot and the reaction kinetic analysis*

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Introduction

Controlled rate thermogravimetry (CRTG) is used to study the decomposition of polymers. The Ozawa-Friedman method is typically applied to the analysis of data obtained by CRTG and also to that obtained by the combined use of isothermal thermogravimetry (iso-TG) with conventional linear heating rate thermogravimetry (LHTG), i.e. using a constant heating rate.