



# Thermogravimetric Analysis (TGA)

## THERMOGRAVIMETRIC ANALYSIS OF PLASTICS AND RUBBERS

### KEY WORDS

THERMAL STABILITY  
TGA,  
THERMOGRAVIMETRY,  
COMPOSITION

### DESCRIPTION

The change in mass of a sample is measured as it is heated. This test is ideal for determining the composition of a material by quantifying the content of polymer, inorganic fillers (such as fiberglass or talc), carbon black, and other additives. It also allows for the evaluation of the thermal stability of materials by determining the temperature at which they begin to degrade.

### AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Determination according to ASTM E1131-08 standard

### APPLICATIONS

- Compositional analysis of plastics and rubbers
- Quantification of mineral filler and fiberglass
- Determination of carbon black content
- Thermal stability and degradation studies
- Moisture and volatile content

### CONTACT US

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