



Fourier Infrared Spectroscopy

CHARACTERIZATION AND QUALITY ANALYSIS OF RECYCLED PLASTICS

KEY WORDS

FUNCTIONAL
GROUPS,
COMPOSITION,
DEGRADATION

DESCRIPTION

Fourier Transform Infrared Spectroscopy (FTIR) is used to characterize and perform quality control on recycled plastics. It allows for the identification of polymers, contaminants, additives, and microplastics, ensuring the purity and homogeneity of the samples. This technique supports the development of more durable coatings and packaging, reduces defects, and improves compliance with environmental regulations, thereby strengthening the quality of plastic waste utilization as raw material for new processes.

AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Fourier Transform Infrared Spectroscopy (FTIR)

APPLICATIONS

- Identification of polymers, contaminants, additives and microplastics
- Quality control of recycled materials

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