

Morphological and Nanomechanical Analysis

ATOMIC FORCE MICROSCOPY (AFM) TESTING

KEY WORDS

PARTICLES,
DEGRADATION,
SURFACE

DESCRIPTION

Atomic Force Microscopy (AFM) testing for the morphological and nanomechanical analysis of polymers allows for the evaluation of surface quality, roughness, adhesion, and the presence of contaminants. This technique supports the improvement of production processes, the development of more durable and sustainable materials, and the early detection of defects or degradation. With high-precision equipment, it contributes to technological innovation in the circular economy of the plastics sector.

AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Atomic Force Microscopy

APPLICATIONS

- Morphological and nanomechanical analysis of polymers
- Degradation detection
- Roughness and adhesion assessment

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