



# Chemical Characterization of Polymers

## ANALYSIS OF THE CHEMICAL STRUCTURE

### KEY WORDS

POLYMER  
IDENTIFICATION,

CHEMICAL  
STRUCTURE  
ANALYSIS,

CRYSTALLINITY

### DESCRIPTION

The LMOPS offers a service for characterizing the composition and chemical structure of polymers using advanced techniques, such as Raman spectroscopy, Fourier transform infrared spectroscopy, and X-ray analysis. These methods allow for the identification of polymer types, functional groups, crystallinity, and structural organization at the molecular level.

### AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Raman Spectroscopy
- Fourier Transform Infrared Spectroscopy
- X-ray Diffraction

### APPLICATIONS

- Materials identification
- Quality control
- Failure analysis
- Product optimization

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