



# Analysis of Synthetic Polymers

## IDENTIFICATION OF SYNTHETIC POLYMERS USING CHARACTERIZATION TECHNIQUES

### KEY WORDS

CHARACTERIZATION,  
CLASSIFICATION,  
SYNTHETICS

### DESCRIPTION

We have experience in the characterization and analysis of synthetic polymers using a portfolio of techniques that include mechanical behavior testing, grinding, thermal behavior testing, injection tests, near-infrared spectroscopy (NIR), atomic force microscopy (AFM), Fourier transform infrared spectroscopy (FTIR), and dynamic light scattering testing, among others. Proper identification improves the efficiency of recycling processes and supports the traceability of materials in the value chain towards a circular economy.

### APPLICATIONS

- Municipal Solid Waste
- Post-consumer rigid and flexible packaging
- Packaging
- Extended producer responsibility (EPR)
- Waste managers

### CONTACT US

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