



Polymer Laboratory

SYNTHESIS AND STUDY OF MATERIALS WITH TECHNOLOGICAL POTENTIAL

KEY WORDS

POLYMERS,
SYNTHESIS,
RECYCLING

DESCRIPTION

The PUCV polymer laboratory is dedicated to the synthesis, characterization, and study of macromolecules in various fields. It has a basic research line focused on the synthesis of conjugated polymers, based on the design of monomeric units and their subsequent electropolymerization on different substrates, to generate organic materials with applications in optoelectronics. It also works on applied research focused on the recycling of commercial polymers that have a significant environmental impact.

The laboratory has specialized equipment that includes a size exclusion chromatograph (SEC) with a GPC-80MD column, differential scanning calorimeter (DSC), potentiostat, and equipment for organic synthesis in an inert atmosphere. This instrumentation allows us to undertake research projects and services with high technical standards.

APPLICATIONS

- Synthesis of polymers with photoelectric activity
- Electropolymerization of organic compounds

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