

AN EXTENSION OF YOUR LABORATORY



Technological Innovation

We are equipped with a set of cutting-edge technologies developed both by Polymer Char, the foremost expert in polyolefin characterization instrumentation, and external suppliers.

Analytical Techniques:

- Molar Mass Distribution
MWD (GPC-IR +dRI)
- Chemical Composition Distribution
CCD (TREF, CEF, TGIC, CRYSTAF)
- Cross Fractionation Chromatography
MWDxCCD (CFC, SGIC 2D)
- Soluble Fraction Measurement in Polypropylene
(CRYSTEX)
- Viscosity in Solution
(IVA, IVA Versa)
- Preparative Fractionation
(PREP C20, PREP mc²)
- FTIR
- DSC
- GC-MS
- HPLC

Quality Results

We have the most comprehensive range of polyolefin separation techniques, and now we're extending this knowledge to the analysis of other plastics. Our team comprises experts with decades of experience in analyzing various resin types, particularly polyolefins.

Excellence in Services

We are committed to serving our clients exceptionally, ensuring that working with us is as seamless, straightforward, and effortless as operating your own laboratory.



About Us

Polymer Analytical is a specialized division of Polymer Char. Inaugurated in 2023, it operates in a brand-new and independent facility dedicated exclusively to analytical services and consulting. This standalone center focuses solely on R&D and product analysis, enabling us to enhance the quality of our service and improve the overall customer experience.

Committed to Innovation

This center stands as a new benchmark for polymer characterization laboratories in terms of innovation and the scope of analytical techniques it holds. From custom-made extraction systems, to an efficient, vacuum-style distillation process that minimizes solvent degradation and preserves its quality. Each detail has been carefully designed to ensure reproducibility and promote sustainable lab practices.

Committed to Sustainability

Polymer Analytical is housed in state-of-the-art facilities that set new standards for safety, modernness, and sustainability in a laboratory setting. The building's construction was conceived from the outset to integrate sustainability and efficiency.

Our commitment is reflected in several actions:

- **Sustainable design:** facilities conceived to reduce the environmental footprint.
- **Advanced research:** development of analytical methods for recycled and recyclable resins.
- **Innovation in sustainability:** development of analytical methods that enable the identification of components in materials, leveraging our extensive expertise in polyolefin characterization.
- **Support for the circular economy:** analysis of complex mixtures, including PC (post-consumer) and PIR (post-industrial recycled) materials.

In a context where sustainable materials are becoming increasingly relevant—and considering that most recycled plastics typically contain PE, PP, or a combination of both—our broad range of analytical resources is more essential than ever to advance sustainability and ensure material quality.

