



## Fully-Automated, High-Temperature GPC for Polyolefins Characterization

GPC-IR® is a reliable and fully-automated 4-Detector, high-temperature Gel Permeation Chromatograph (GPC) dedicated to the characterization of polyolefins. It incorporates the best infrared (IR) detectors, which provide chemical composition information as well.

Two different infrared detectors are available: IR5 MCT, with outstanding sensitivity and stability to measure both concentration and composition (SCB/1000TC), and IR4 with the possibility of measuring carbonyls content as well. In addition, Polymer Char's Four-Capillary Bridge Viscometer and a Multi-Angle Light Scattering (DAWN® HELEOS II™ from Wyatt Technology®), for the determination of the absolute Molar Mass and Long Chain Branching (LCB) study, can be coupled to the GPC-IR system, becoming the most complete instrument for SEC analysis.

The automation of GPC-IR® significantly reduces the manual work and time. Sample preparation just consists of weighing the samples, since the vials are filled automatically with fresh solvent. They stay in the high-temperature oven just the needed time for dissolution, to minimize sample degradation. After dissolution time (different dissolution times can be selected for each vial), the sample is automatically filtered by an in-line filter before the injection. There is no vial transfer along the whole process.

ARABLAB Stand #565

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<http://www.polymerchar.com/gpc-ir>