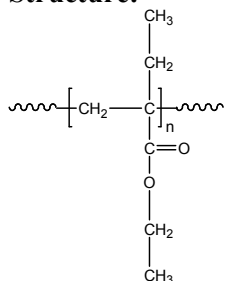


Sample Name: Poly (α -ethyl ethyl acrylate)

Sample #: P40418A-EEA

Structure:

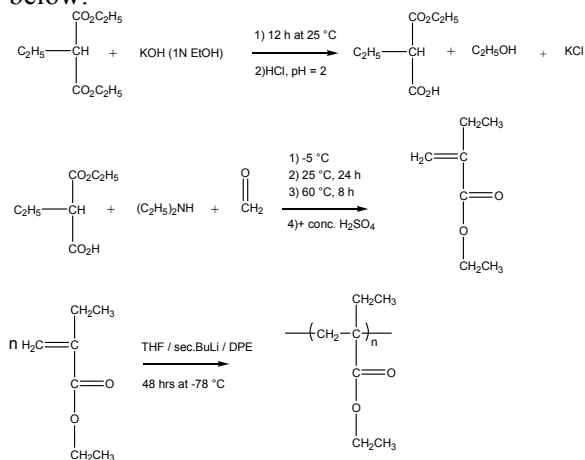


Composition:

Mn x 10 ³	PDI
31.5	1.3

Synthesis Procedure:

Poly (α -ethyl ethyl acrylate) is obtained by living anionic polymerization of ethyl α -ethyl ethyl acrylate. The reaction scheme used for the monomer and the polymer synthesis are shown below:



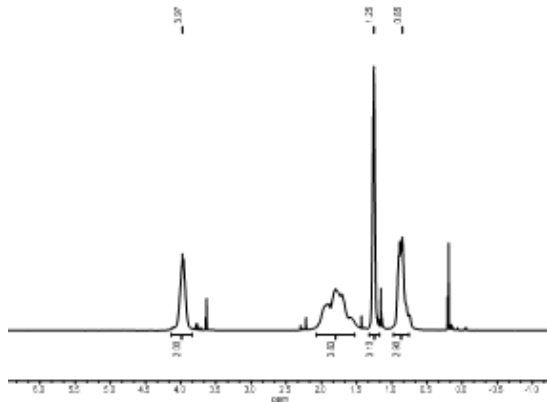
Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

Solubility:

Poly (ethyl-ethyl acrylate) is soluble in THF, toluene and CHCl₃. This polymer precipitates from ethanol and methanol containing 10-15% water.

¹HNMR spectrum of the Polymer:



SEC elugram of Homopolymer:

