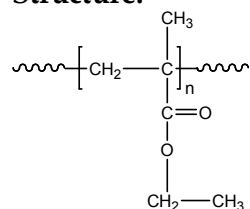


Sample Name: Poly(ethyl methacrylate)

Sample #: P8335-EMA

Structure:

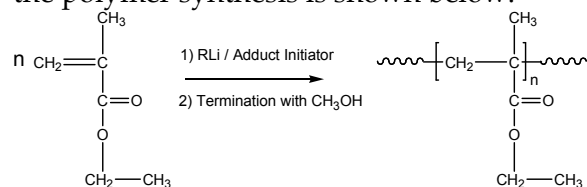


Composition:

Mn x 10 ³	PDI
37.0	2.0
T _g (°C)	61

Synthesis Procedure:

Poly(ethyl methacrylate) is obtained by living anionic polymerization of ethyl methacrylate. The reaction scheme used for the polymer synthesis is shown below:



Characterization:

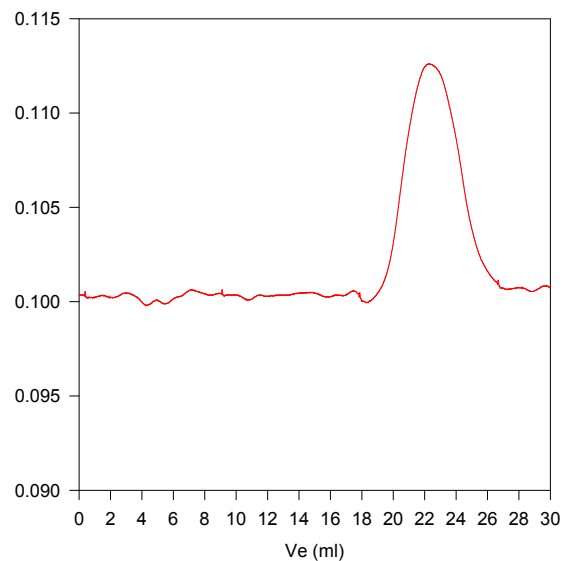
The molecular weight and polydispersity index (PDI) of Poly(ethyl methacrylate) are obtained by size exclusion chromatography.

Solubility:

Poly(ethyl methacrylate) is soluble in THF, CHCl₃, toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

SEC of Homopolymer:

P8335-EMA



Size exclusion chromatograph of Poly (ethyl methacrylate):

M_n=37,000, M_w=74,000, PI=2.0

DSC thermogram for the polymer:

