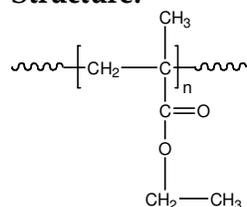


Sample Name: Poly(ethyl methacrylate)

Sample #: P1162-EMA

Structure:

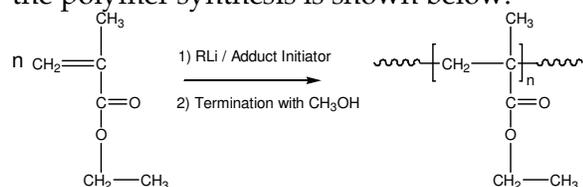


Composition:

$M_n \times 10^3$	PDI
26.7	1.05
T_g ($^{\circ}\text{C}$)	70

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:



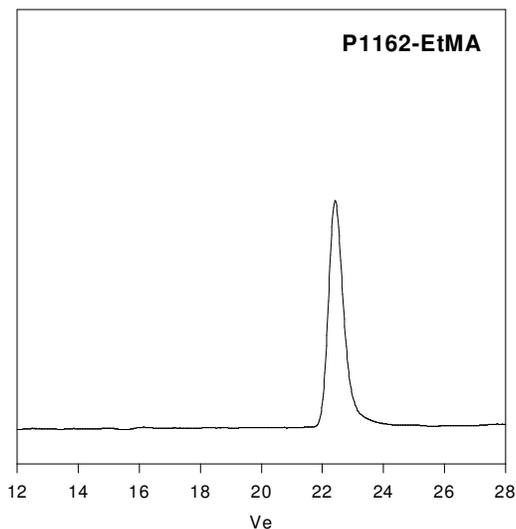
Characterization:

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, CHCl_3 , toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

SEC of Homopolymer:



Size Exclusion Chromatography of Poly(ethyl methacrylate):

$$M_n = 26700, M_w = 28000, M_z = 29400, M_w/M_n = 1.05$$

DSC thermogram for the polymer:

