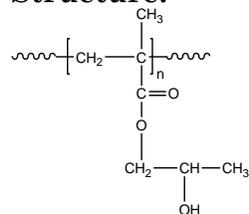


Sample Name: Poly(hydroxyl propyl methacrylate)

Sample #: P3202-HPMA

Structure:

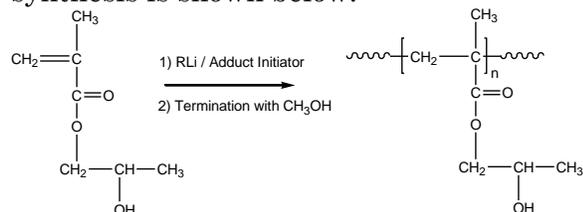


Composition:

$M_n \times 10^3$	PDI
61.5	1.28
T_g ($^{\circ}\text{C}$)	116

Synthesis Procedure:

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



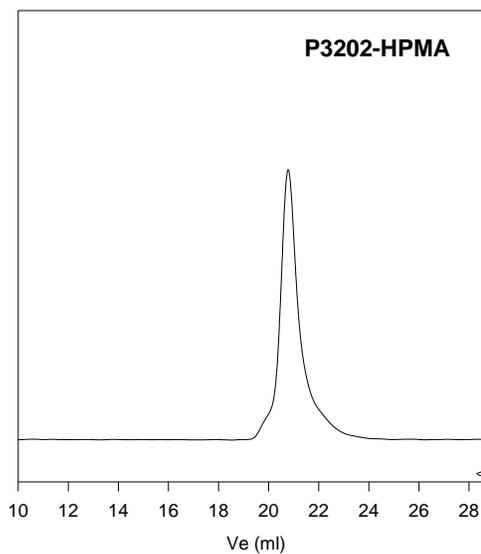
Characterization:

The molecular weight and polydispersity index (PDI) of Poly(hydroxyl propyl methacrylate) are obtained by size exclusion chromatography. Thermal analysis of the sample was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of $10^{\circ}\text{C}/\text{min}$. The inflection glass transition temperature (T_g) has been considered.

Solubility:

Poly(hydroxyl propyl methacrylate) is soluble in DMF and THF.

SEC of Homopolymer:



Size exclusion chromatography of HPMA:
 $M_n=61500$, $M_w=79000$, $PI=1.28$

DSC thermogram for the polymer:

