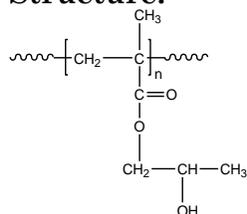


Sample Name: Poly(hydroxyl propyl methacrylate)

Sample #: P3221-HPMA

Structure:

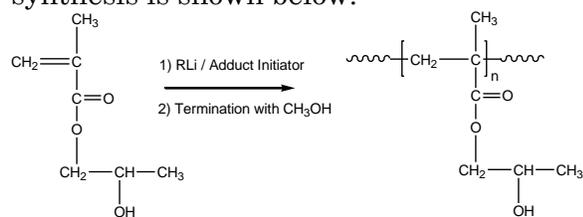


Composition:

$M_n \times 10^3$	PDI
362.0	1.40
T_g ($^{\circ}C$)	93

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:

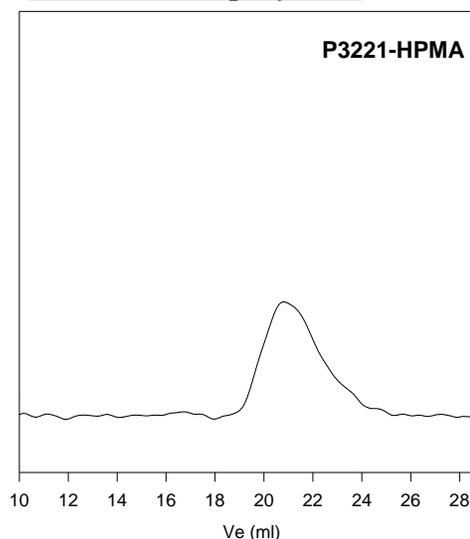
The molecular weight and polydispersity index (PDI) of Poly(hydroxyl propyl methacrylate) are obtained by size exclusion chromatography.

Thermal analysis of the sample was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of $10^{\circ}C/min$. The inflection glass transition temperature (T_g) has been considered.

Solubility:

Poly(hydroxyl propylmethacrylate) is soluble in DMF and THF.

SEC of Homopolymer:



Size exclusion chromatography of HPMA:

$M_n=362000$, $M_w=507000$, $PI=1.40$

DSC thermogram for the polymer:

