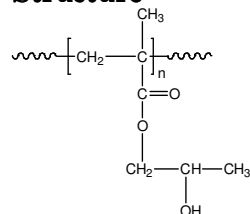


Sample Name: Poly(hydroxyl propyl methacrylate)

Sample #: P3211-HPMA

Structure:

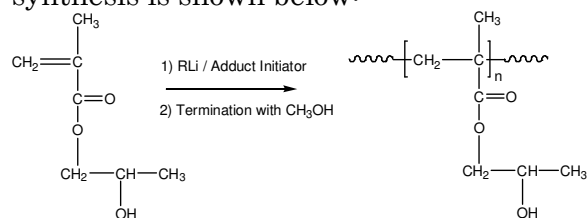


Composition:

Mn × 10 ³	PDI
50.0	2.20
T _g (°C)	80

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:

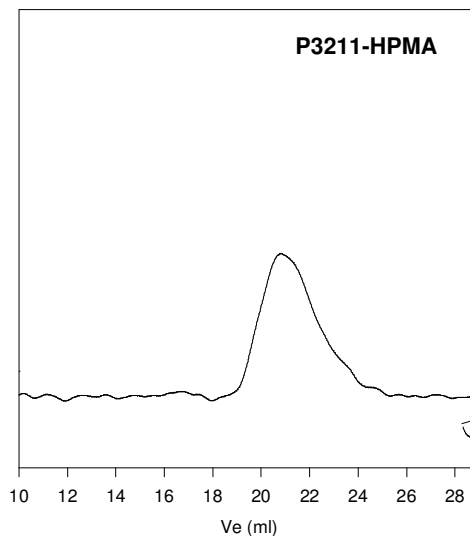
The molecular weight and polydispersity index (PDI) of Poly(hydroxyl propyl methacrylate) are obtained by size exclusion chromatography.

Thermal analysis of the sample was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°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=50000, M_w=110000, PI=2.20

DSC thermogram for the polymer:

