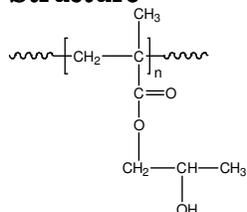


**Sample Name:** Poly(hydroxyl propyl methacrylate)

**Sample #:** P3211-HPMA

**Structure:**

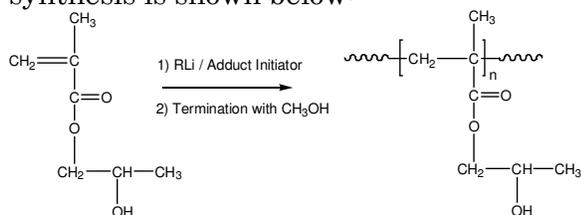


**Composition:**

$M_n \times 10^3$	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:**

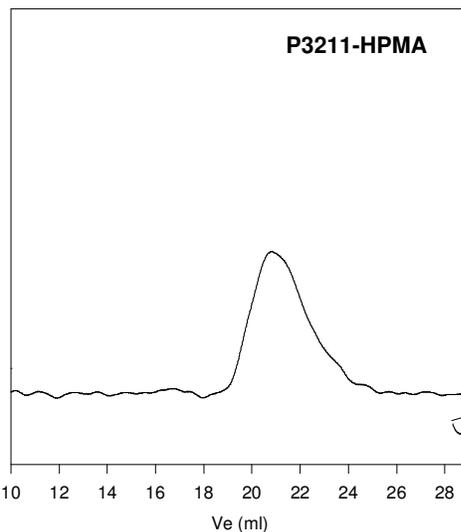
The molecular weight and polydispersity index (PDI) of Poly(hydroxyl propyl methacrylate) are obtained by size exclusion chromatography.

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 propyl methacrylate) 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:**

