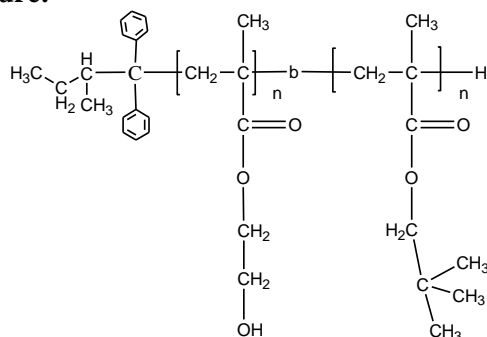


Sample Name: Poly (2-hydroxyethyl methacrylate)-
b-neopentyl methacrylate)

Sample #: P40871A-HEMANPMA

Structure:



Composition:

| | |
|----------------------------------|-----------|
| $M_n \times 10^3$ HEMA-b-NPMA | M_w/M_n |
| 3.0-b-248.0 | 1.07 |

| | |
|-----------------------|------------------|
| HEMA:NPMA | 4:96 molar ratio |
| T_g for NPMA block: | 119°C |

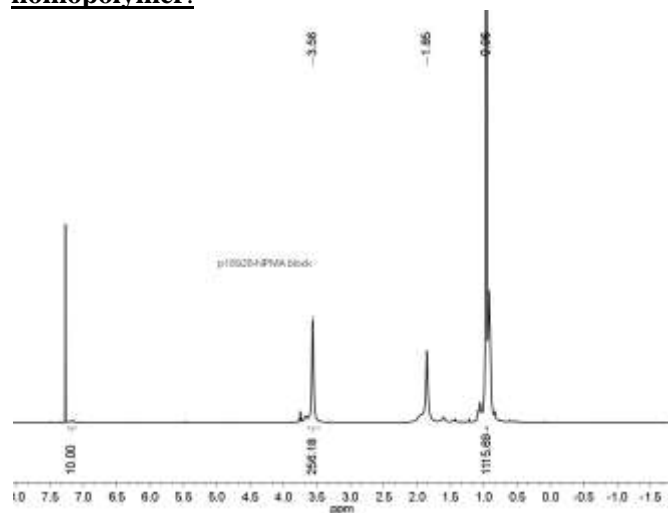
Synthesis:

The diblock copolymer was synthesized by anionic polymerization process.

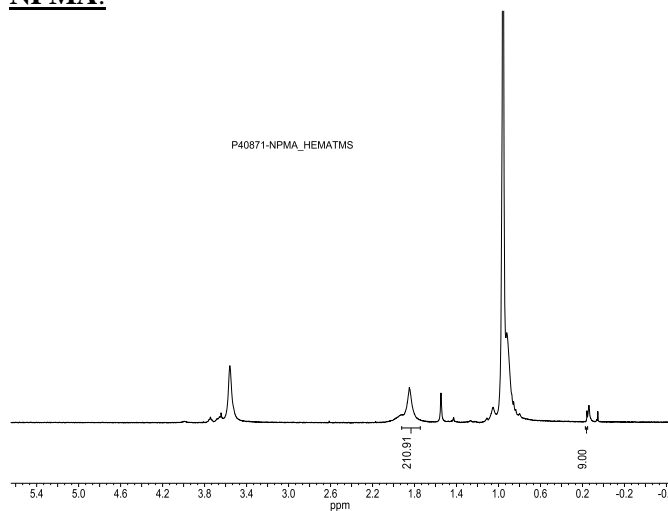
Characterization:

The polymer was characterized by $^1\text{H-NMR}$ and size exclusion chromatography (SEC).

$^1\text{H NMR}$ spectrum (500 MHz, CDCl_3) of NPMA homopolymer:



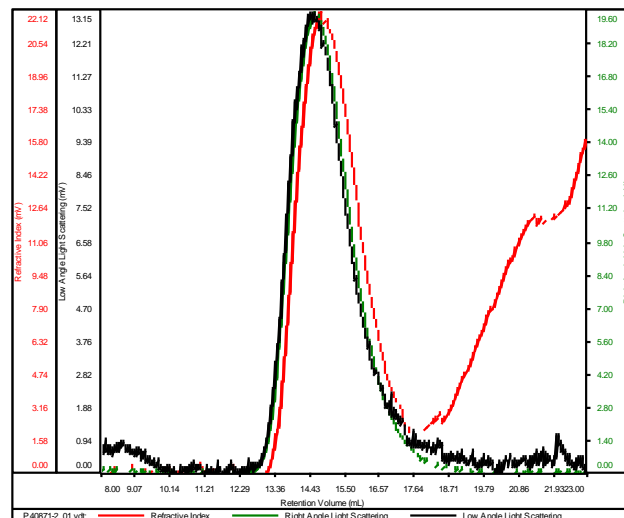
$^1\text{H NMR}$ (500 MHz, in CDCl_3) of HEMATMS-NPMA:



SEC elugram of the polymer:

P40871-2

| | |
|-----------|--------------------------|
| Conc | 3.2101 |
| dn/dc | 0.0650 |
| Solvent | DMF w 0.023M LiBr |
| Flow Rate | 0.7000 |
| Method | PS80k-04Dec2017-0000.vcm |



| Sample | M_n | M_w | M_p | M_w/M_n | IV |
|-----------------|---------|---------|---------|-----------|--------|
| P40871-2_01.vdt | 253,646 | 271,624 | 273,875 | 1.071 | 0.3788 |