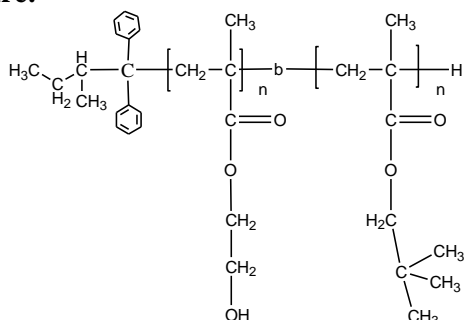


Sample Name: Poly (2-hydroxyethyl methacrylate)-
b-poly (neopentyl methacrylate)

Sample #: P41843A-HEMANPMA

Structure:



Composition:

| | |
|-------------------------------|-------|
| Mn $\times 10^3$ HEMA-NPMA | Mw/Mn |
| 16.0-b-228 | 1.17 |

| | |
|--------------------------------|------------------|
| HEMA: NPMA | 5:95 molar ratio |
| T _g for NPMA block: | 119°C |

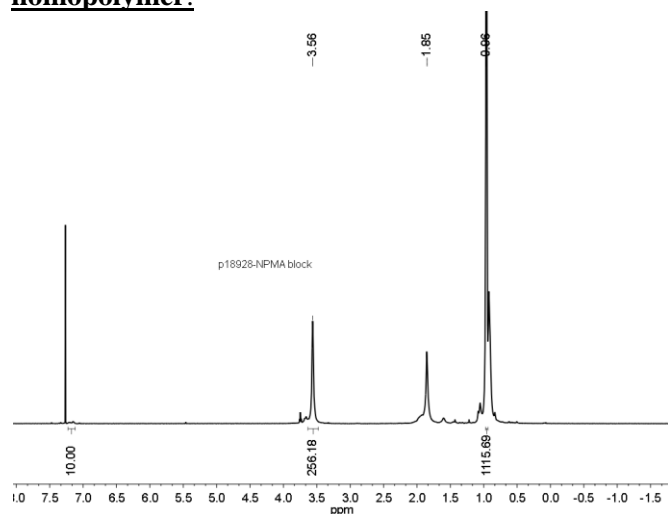
Synthesis:

The diblock copolymer was synthesized by anionic polymerization process.

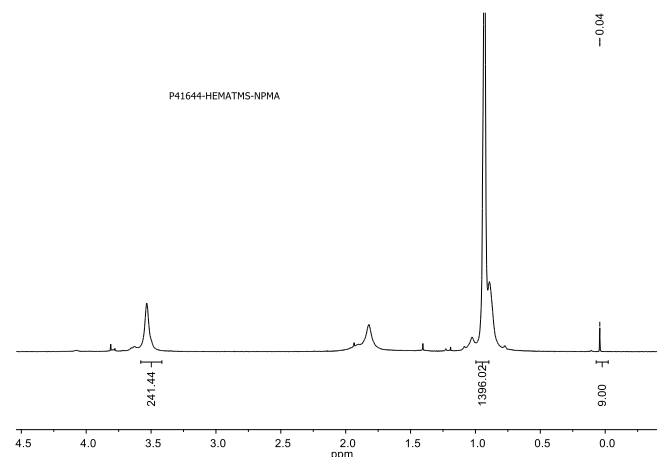
Characterization:

The polymer was characterized by ¹H-NMR and size exclusion chromatography (SEC).

¹H NMR (500 MHz, CDCl₃) of NPMA homopolymer:



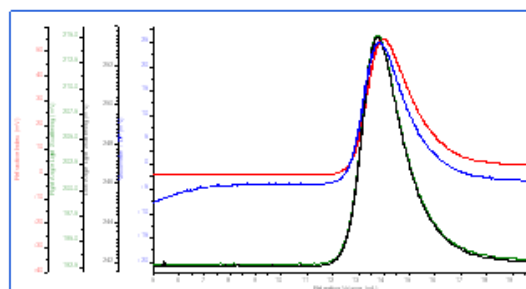
¹H NMR (500 MHz, acetone-d₆) of HEMATMS-NPMA:



SEC elugram of the polymer:

-HEMANPMA

| | |
|-----------|--|
| dn/dc | 0.0650 |
| Flow Rate | 0.7000 |
| Solvent | DMF with LiBr |
| Method | PSS column-PMMA60 K-Jan3-2019-0003.vcm |



| Sample | Mn | Mw | Mp | Mw/Mn |
|-------------------|---------|---------|---------|-------|
| HEMA NPMA_1_2019- | 288,175 | 339,045 | 352,718 | 1.177 |