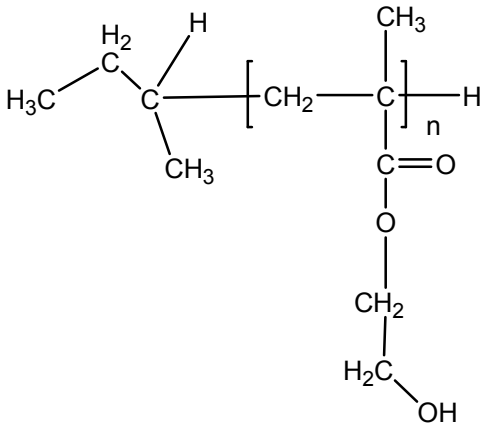
Sample Name:
Poly (2-hydroxyethyl methacrylate)

Sample #: **P40339C-HEMA**
(Synthesized by anionic process)

Structure:



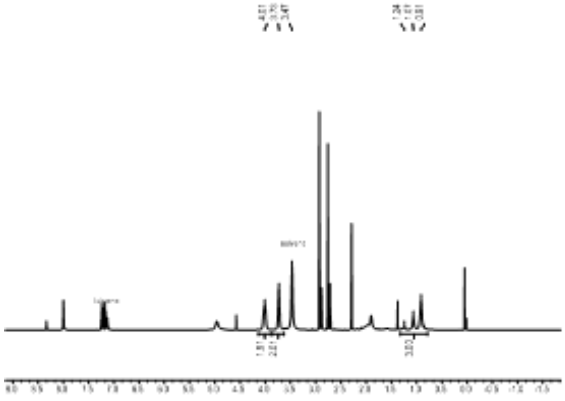
Composition:

Mn x 10^3	**PDI**
408.0	1.45
T_g (^oC)	76 ^oC
Microstructures S: H: I	15:27:58

Synthesis Procedure:
Poly (2-hydroxyethyl methacrylate) is synthesized by living anionic polymerization of 2-(trimethylsilyl) ethyl metharcylate followed by deprotection of hydroxyl group under acidic conditions.

Characterization:
The product was characterized by size exclusion chromatography (SEC), ^{1}H NMR and DSC.

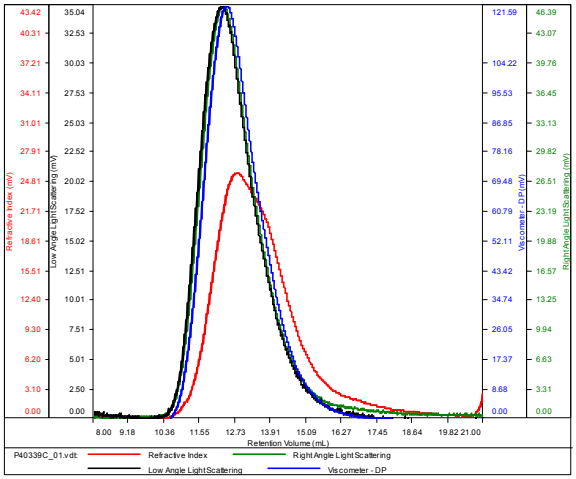
^{1}H-NMR Spectrum of the polymer:



SEC of homopolymer:

P40339C-HEMA

Conc (mg/mL)	6.5119
dn/dc (mL/g)	0.0650
Method	PS80k_December-2016-0004.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	**Mn**	**Mw**	**Mp**	**Mw/Mn**	**IV**
P40339C_01.vdt	407,822	589,023	623,624	1.444	0.4394

DSC thermogram for the polymer: