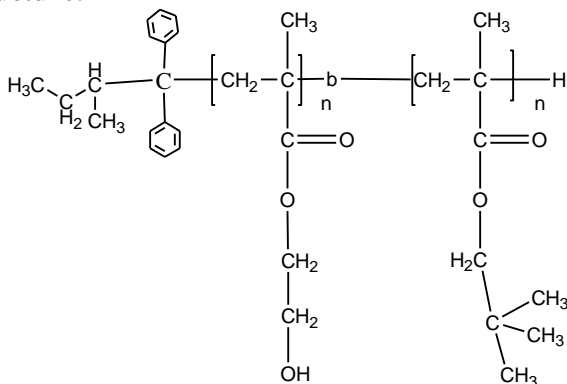


Sample Name: Poly (2-hydroxyethyl methacrylate)-  
b-neopentyl methacrylate)

Sample #: P40057-HEMANPMA

Structure:



Composition:

$M_n \times 10^3$ HEMA-b-NPMA 6.0-b-500.0	Mw/Mn 1.39
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HEMA:NPMA	4:96 molar ratio
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$T_g$ for NPMA block:	119°C
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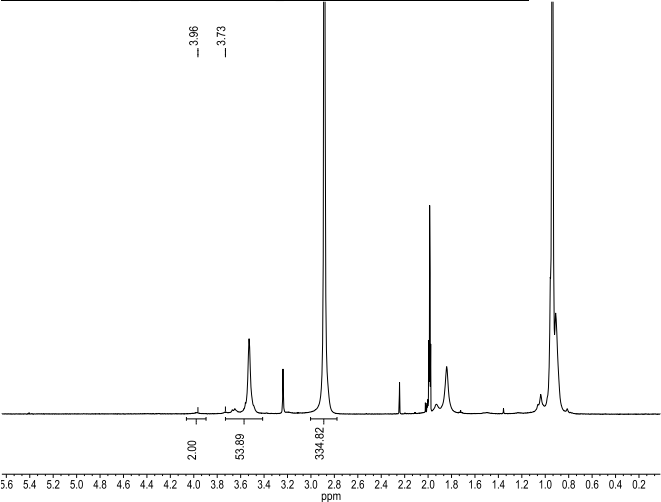
Synthesis:

The polymer was synthesized by anionic polymerization process. In this batch HEMATMS monomer polymerized first followed by NPMA monomer.

Characterization:

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

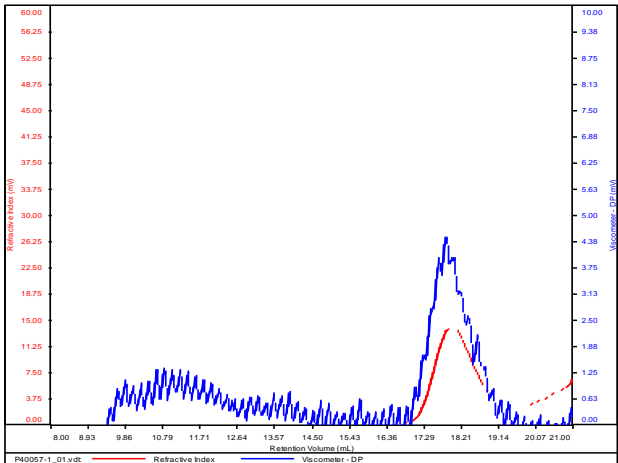
$^1\text{H}$  NMR spectrum of polymer in Acetone:



SEC elugram of HEMATMS Block in DMF:

P40057-HEMATMS

Conc (mg/mL)	0.9166
dn/dc (mL/g)	0.0650
Method	PS80k-July22-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS

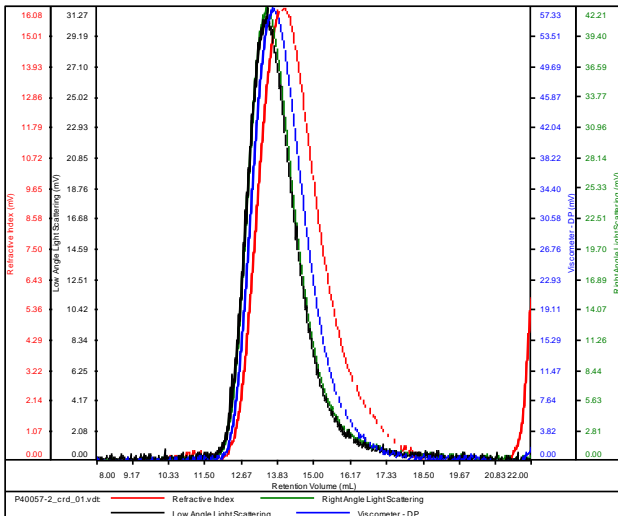


Sample	Mn	Mw	Mp	Mw/Mn	IV
P40057-1_01.vdt	10,259	46,268	16,275	4.510	0.0601

SEC elugram of HEMATMSNPMA in DMF:

P40057-HEMATMSNPMA

Conc (mg/mL)	2.0142
dn/dc (mL/g)	0.0650
Method	PS80k-July22-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40057-2_crd_01.vdt	504,946	701,398	660,981	1.389	0.6279