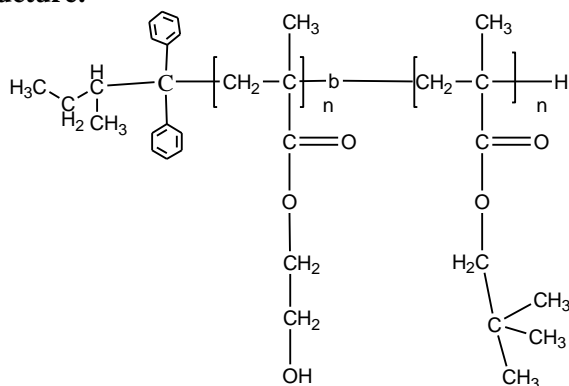


**Sample Name:** Poly (2-hydroxyethyl methacrylate)-  
b-neopentyl methacrylate)

**Sample #:** P19790-HEMANPMA

**Structure:**



**Composition:**

$M_n \times 10^3$ HEMA-b-NPMA	Mw/Mn
5.0-b-660.0	1.25

HEMA:NPMA	4:96 molar ratio
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$T_g$ for NPMA block:	119°C
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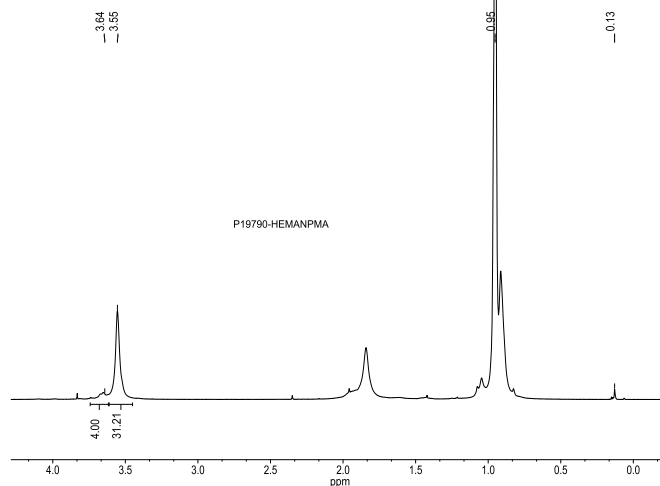
**Synthesis:**

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.

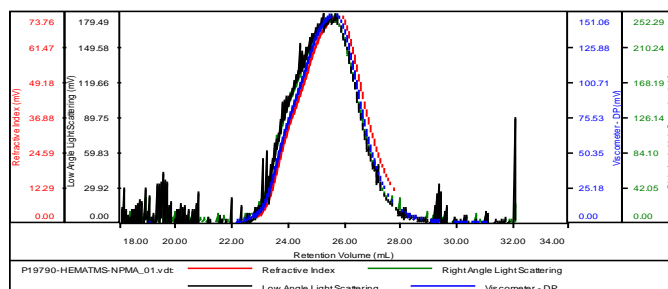
**$^1\text{H}$  NMR (acetone- $d_6$ ) of HEMANPMA:**



**SEC elugram of HEMATMS-NPMA in THF at 60°C:**

Sample ID-P19790-HEMATMS-NPMA

Concentration (mg/mL)	1.5335
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-March2016-0001.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Rh (nm)	Ret Vol (mL)
P19790-HEMATMS-NF	668,336	832,612	1.246	11.0392	67.55	25.744