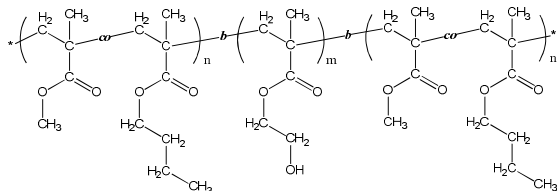


Sample Name: Poly(Methyl methacrylate-co-n-Butyl methacrylate random-b-2-Hydroxy ethyl methacrylate-b-Methyl methacrylate-co-n-Butyl methacrylate random)

Sample #: P40393-MMAAnBuMAran-b-HEMA-b-MMAAnBuMAran

Structure:



Composition:

Mn × 10 ³	PDI
MMAAnBuMAran-b-HEMA-b-MMAAnBuMAran 17.0-b-35.0-b-40.0	1.5

Molar ratio MMA:nBuMA (mol%):	52:48
Weight ratio MMA:nBuMA (wt%):	58:42
Glass transition temperature, T _{g1} :	74 °C
Glass transition temperature, T _{g2} :	105 °C

Synthesis Procedure:

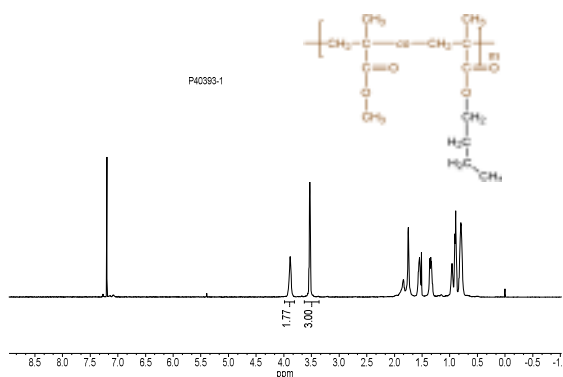
The polymer was synthesized by anionic process by sequential addition of monomers.

Characterization:

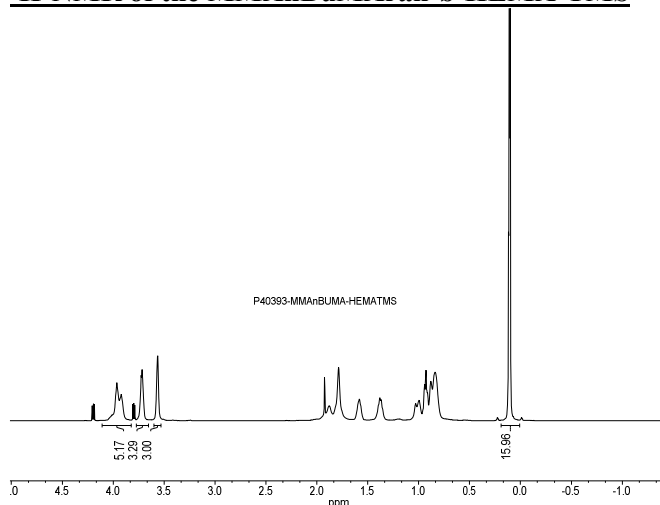
The polymer was characterized by ¹H-NMR and size exclusion chromatography (SEC).

Thermal analysis of the sample was done on a TA Q100 differential scanning calorimeter (DSC) at a heating rate of 10°C/min. The glass transition temperature (T_g) was determined as a midpoint of step change in heat flow curve for the second heating scan.

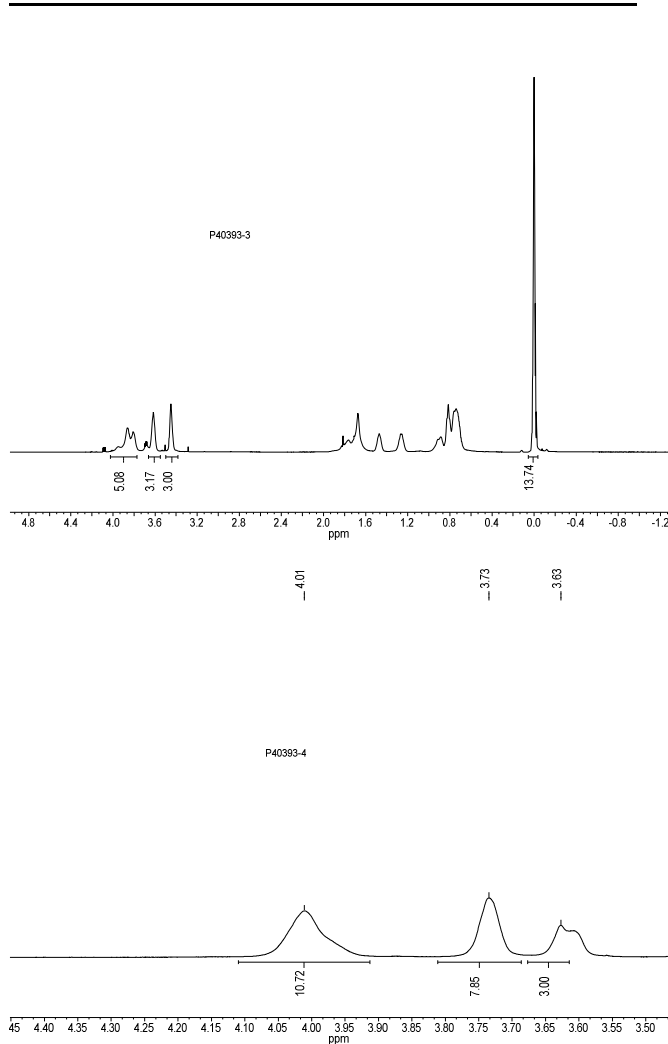
¹H NMR of the First Block



¹H-NMR of the MMAAnBuMAran-b-HEMA-TMS



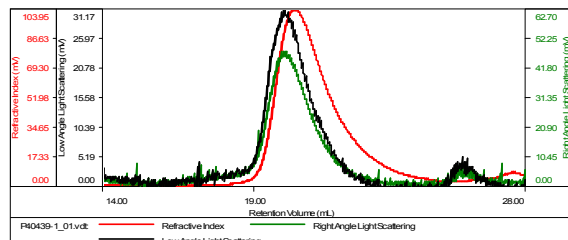
MMA-nBuMAran-HEMATMS-MMAAnBuMAran



SEC elugram of MManBUMA ran First Block:

P40393-MManBuMAran

Concentration (mg/mL)	2.0765
Sample dn/dc (mL/g)	0.1880
Method File	PS80K-Fat2017-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

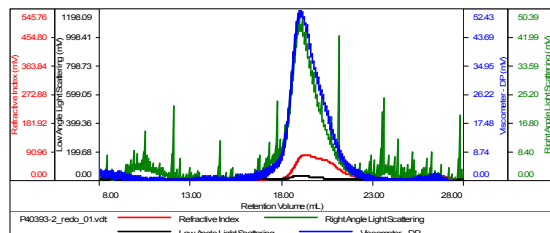


Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40393-1_01.vdt	17,134	26,530	1.548	0.6177	28,991

SEC elugram of MManBUMAran-HEMATMS:

P40393-2

Concentration (mg/mL)	4.0009
Sample dn/dc (mL/g)	0.0940
Method File	PS80K-Nb2016-6-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

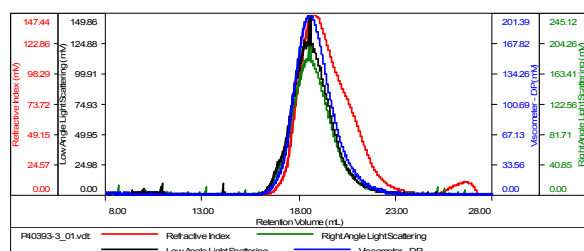


Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40393-2_redo_01.vd	72,207	93,441	1.294	0.4958	80,772

SEC elugram of MManBUMAran-HEMATMS-MManBUMAran:

P40393-3

Concentration (mg/mL)	13.2885
Sample dn/dc (mL/g)	0.0940
Method File	PS80K-Nb2016-6-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



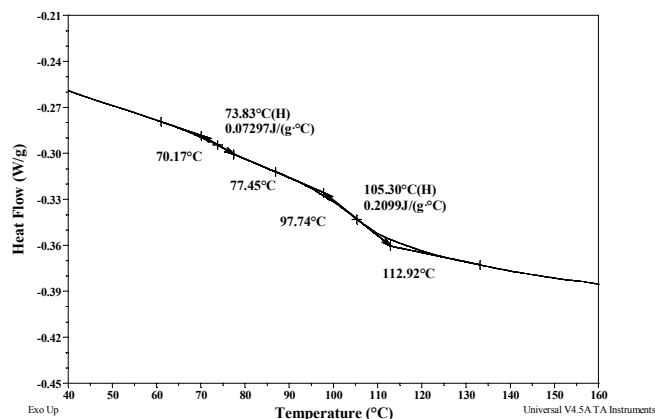
Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40393-3_01.vdt	112,811	177,065	1.570	0.8173	207,157

DSC thermograms (2nd heating scan, 10°C/min):

Sample: P40393_MManBuMA-HEMA-MManBuMA
Size: 18.4000 mg

DSC

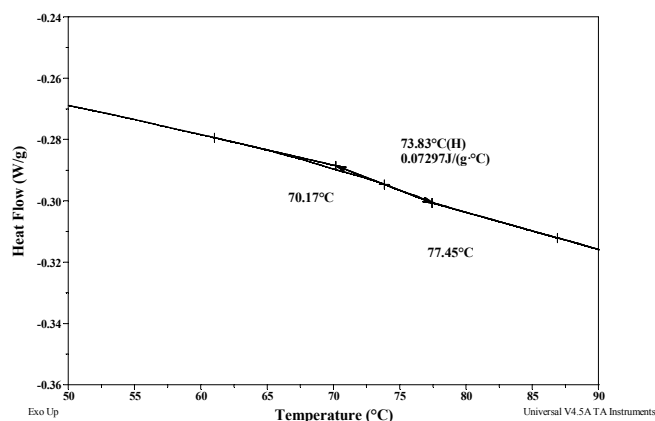
File: P40393_MManBuMA-HEMA-MManBuMA.001



Sample: P40393_MManBuMA-HEMA-MManBuMA
Size: 18.4000 mg

DSC

File: P40393_MManBuMA-HEMA-MManBuMA.001



Sample: P40393_MManBuMA-HEMA-MManBuMA
Size: 18.4000 mg

DSC

File: P40393_MManBuMA-HEMA-MManBuMA.001

