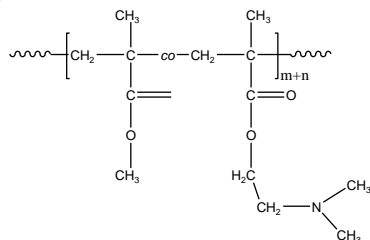


Sample Name: Random Copolymer Poly(methyl methacrylate-co-NN dimethyl amino ethylmethacrylate)

Sample #: P40717-MMADMAEMArAn

Structure:



Composition:

PMMA (75mol%) :

Mn x 10 ³	21.5
PMMA-co-DMAEMA	
PDI	1.44
T _g for the random copolymer:	52 °C

Synthesis Procedure:

The polymer was synthesized by RAFT polymerization process.

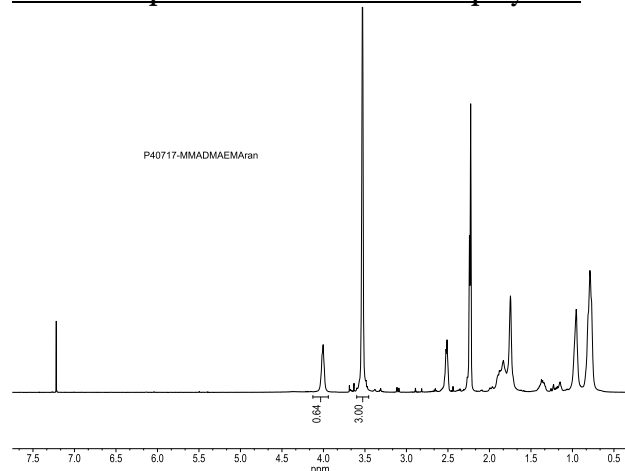
Characterization:

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

Thermal analysis:

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

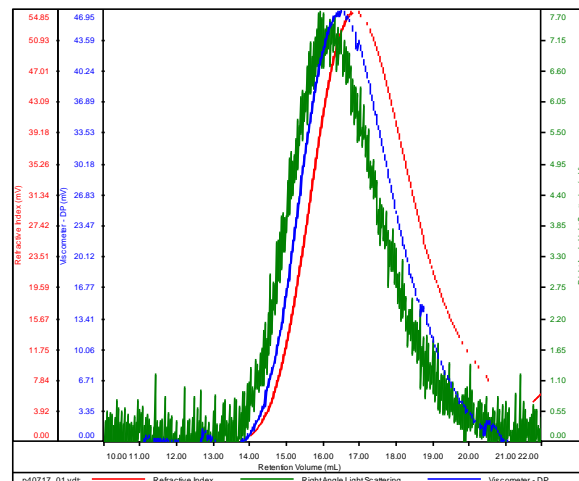
¹H-NMR Spectrum of the random copolymer:



SEC elugram of the random copolymer:

P40717-MMADMAEMArAn

Conc	11.9367
dn/dc	0.0650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80K_2017-July-05-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
p40717_01.vdt	21,616	31,310	28,451	1.448	0.1404

DSC thermogram for the sample:

Sample: P40717_MMADMAEMArAn
Size: 13.5000 mg

File: P40717_MMADMAEMArAn.003

