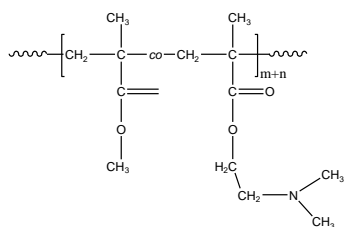


Sample Name: Random Copolymer Poly(methyl methacrylate-co-NN dimethyl amino ethylmethacrylate)

Sample #: P40732D-MMADMAEMArAn

Structure:



Composition:

PMMA (75mol%) :

Mn x 10 ³ PMMA-co-DMAEMA	5.0
PDI	1.4
T _g for the random copolymer:	56 °C

Synthesis Procedure:

The polymer was synthesized by RAFT polymerization process.

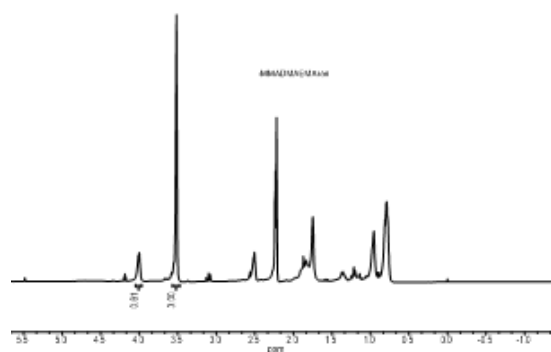
Characterization:

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

Thermal analysis:

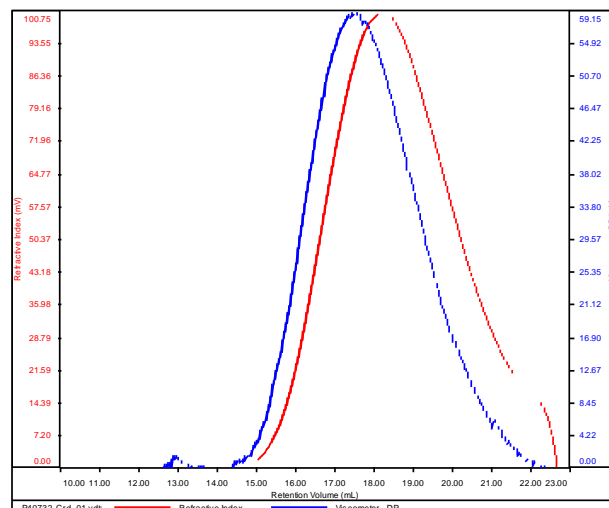
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

¹H-NMR Spectrum of the random copolymer:



SEC elugram of the random copolymer:

Conc	17.3824
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS-80k_2017-September-22-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40732-Crd_01.vdt	4,871	7,046	6,415	1.446	0.1336

DSC thermogram for the sample:

Sample: P40732D_MMADMAEMArAn
Size: 11.5000 mg

File: P40732D_MMADMAEMArAn.001

