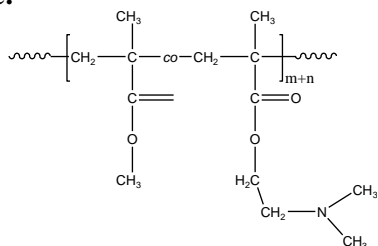


**Sample Name:** Random Copolymer Poly(methyl methacrylate-co-NN dimethyl amino ethylmethacrylate)

**Sample #:** P40732B-MMADMAEMArAn

**Structure:**



**Composition:**

PMMA (75mol%) :

Mn x 10 <sup>3</sup>	13.0
PMMA-co-DMAEMA	
PDI	1.15
T <sub>g</sub> for the random copolymer:	85 °C

**Synthesis Procedure:**

The polymer was synthesized by RAFT polymerization process.

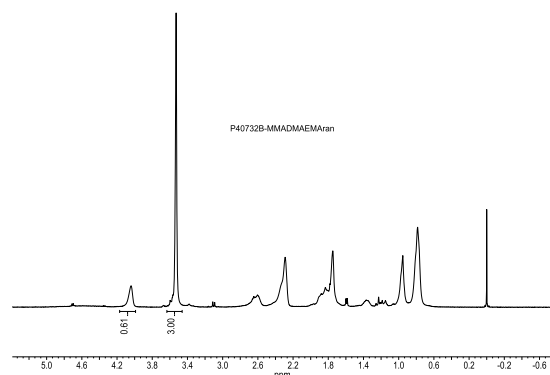
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H 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<sub>g</sub>).

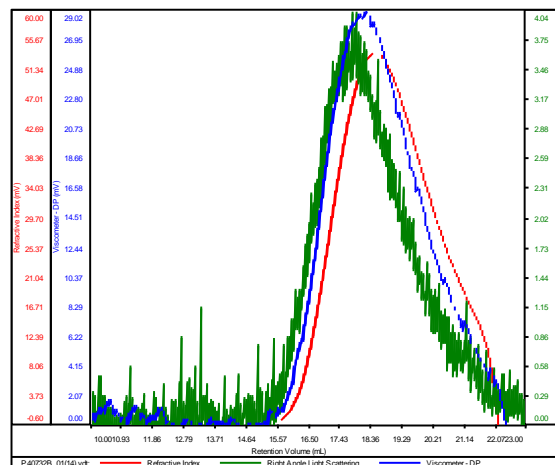
**<sup>1</sup>H-NMR Spectrum of the random copolymer:**



**SEC elugram of the random copolymer:**

P40732B-MMADMAEMArAn

Conc	11.6791
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
P40732B_01(14).vdt	12,895	14,888	14,979	1.155	0.0951

**DSC Thermogram for the sample:**

Sample: P40732B\_MMADMAEMArAn  
Size: 8.2000 mg

File: P40732B\_MMADMAEMArAn.002

