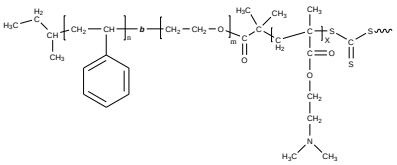
Sample Name: **Poly(styrene-b-ethylene oxide-N,N-dimethyl amino ethyl methacrylate)**

Sample #: **P41687-SEODMAEMA**

Structure:

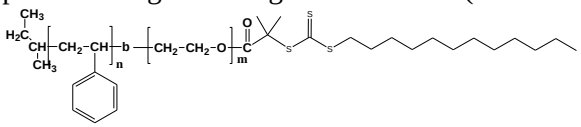


Composition:

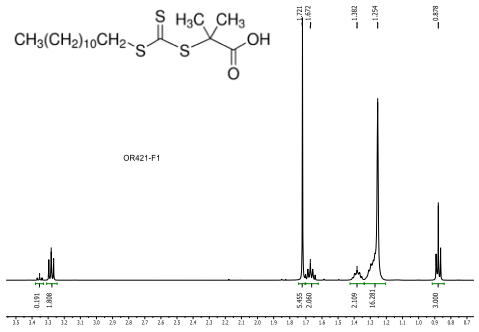
Mn x 10^3 S-b-EO-b-DMAEMA	Mw/Mn (PDI)
10.0-b-11.5-b-2.5	1.14
T_g for PS block: 80°C	T_g for DMAEMA block: Not distinct

Synthesis Procedure:

The polymer was synthesized by RAFT polymerization process using following macroinitiator (lot# P41521).



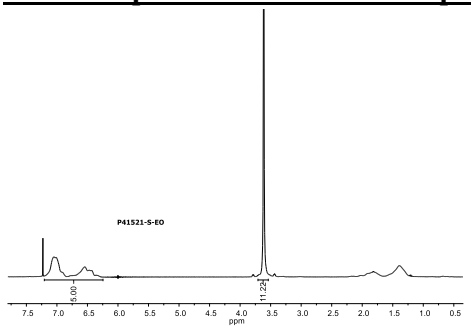
^{1}H NMR spectrum of the Raft reagent:



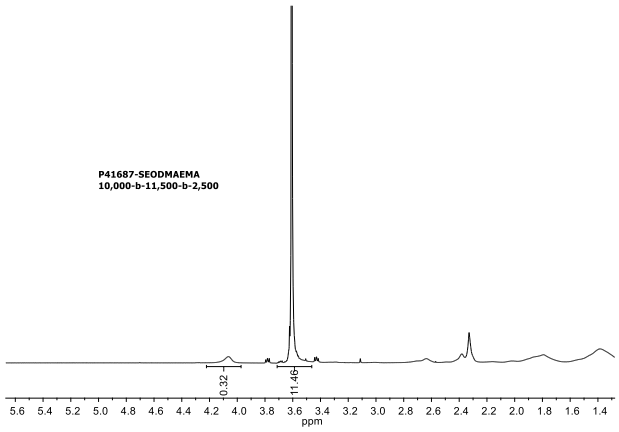
Characterization:

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

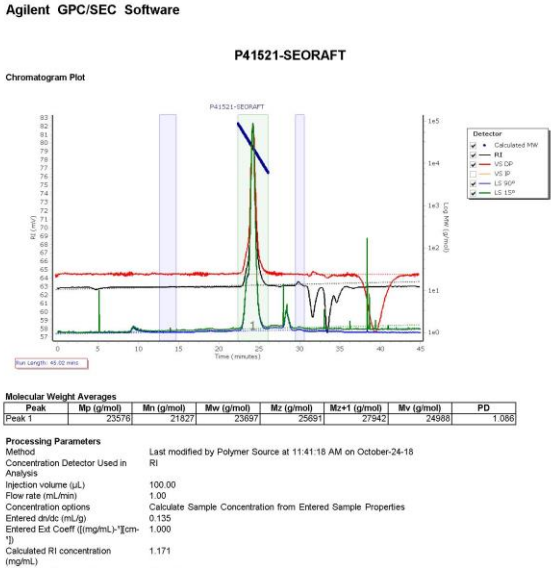
^{1}H NMR spectrum of the SEO sample:



HNMR spectrum of SEODMAEMA Sample:



SEC profile of the Sample:



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	23576	21827	23697	25691	27942	24988	1.086

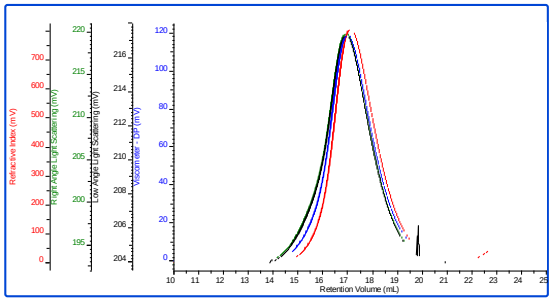
Processing Parameters

Method	Last modified by Polymer Source at 11:41:18 AM on October-24-18
Concentration Detector Used in Analysis	RI
Injection volume (µL)	100.00
Flow rate (mL/min)	1.00
Concentration options	Calculate Sample Concentration from Entered Sample Properties
Entered dn/dc (mL/g)	0.135
Entered Ext Coeff ([(mg/mL)-¹[cm-¹])	1.000
Calculated RI concentration (mg/mL)	1.171

SEC profile of the SEODMAEMA Sample:

P41687-SEODMAEMA

dn/dc	0.0760
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA60K-Jan3-2019-0002.vcm



Sample	Mn	Mw	Mz	IV	Mw/Mn
P41687_1_20:	25,043	28,666	36,974	0.1806	1.145