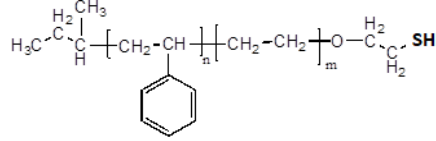


Sample Name: Poly(styrene)-b-poly(ethylene oxide), ω-thiol-terminated

Sample #: P45556B-SEO-SH

Structure:



Composition:

Mn x 10 ³	PDI
S-b-EO	
1.6-b-5.0	1.10

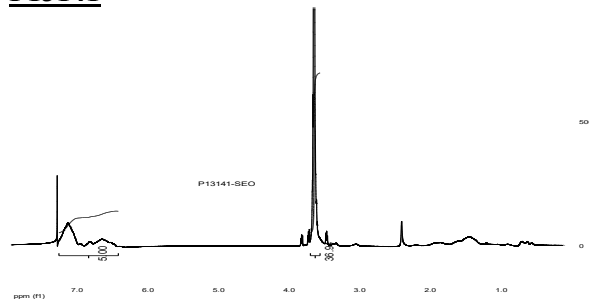
Synthesis Procedure:

The polymer is prepared by living anionic polymerization process and the modification of terminal OH to NH₂.

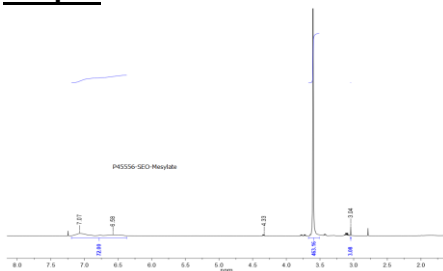
Characterization:

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

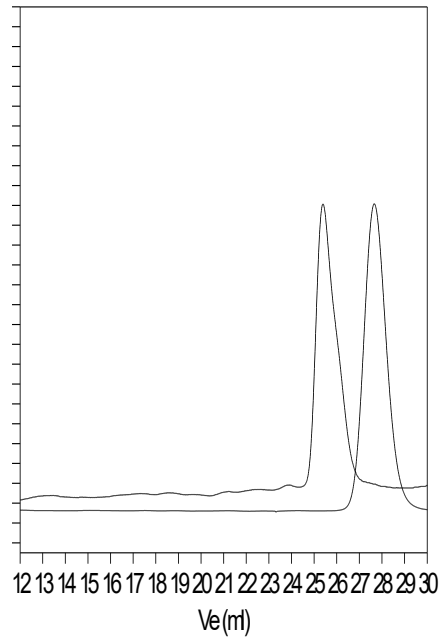
¹H NMR spectrum of the SEO sample: lot# P13141



¹H NMR spectrum of the of SEO-Mesyate sample:



SEC profile of the block copolymer
P45556B-SEO-Mesyate

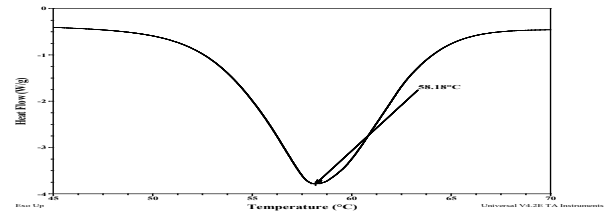


Size exclusion chromatography of poly(styrene-b-ethylene oxide)

— Poly(styrene), M_n=1600, M_w=1800, PDI=1.12
— Block Copolymer PS(1600)-b-PEO(5000), PDI=1.10
The composition determined from ¹H NMR

Thermal analysis of the SEO sample used:

Melting curve for PEO block:



Thermal analysis results at a glance

For PS block T _g : Not distinct		
For PEO block		
T _g : Not distinct	T _m : 58 °C	T _c : 19 °C