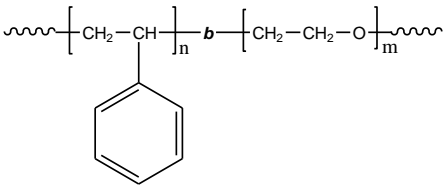


Sample Name: Poly (styrene-b-ethylene oxide)

Sample #: P40593-SEO

Structure:



Composition:

Mn x 10 ³ S-b-EO	PDI
136.5-b-28.5	1.09

Synthesis Procedure:

Poly (styrene-b-ethylene oxide) diblock copolymer is prepared by living anionic polymerization.

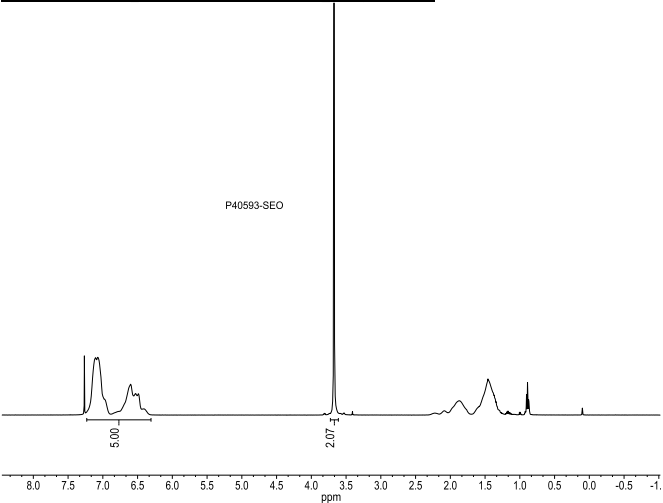
Characterization:

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

Solubility:

The polymer is soluble in THF (at 35 °C), CHCl₃, benzene, toluene, and dioxane. Low molecular weight SEO with high contents of the polyethylene oxide block can also be solubilized in methanol and water.

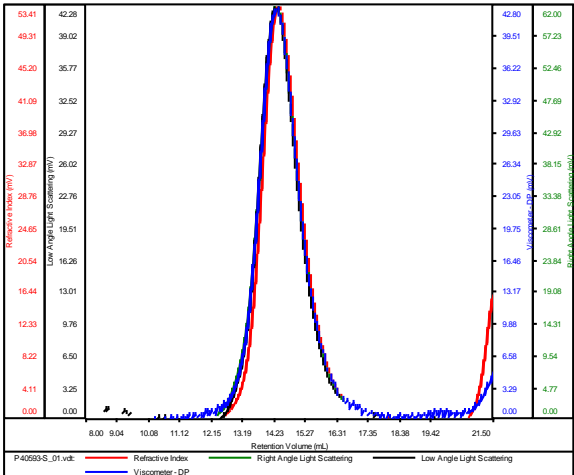
¹H NMR spectrum of the polymer:



SEC elugram of the Styrene block :

P40593-S

Conc	3.7497
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k-May2017-0000.vcm

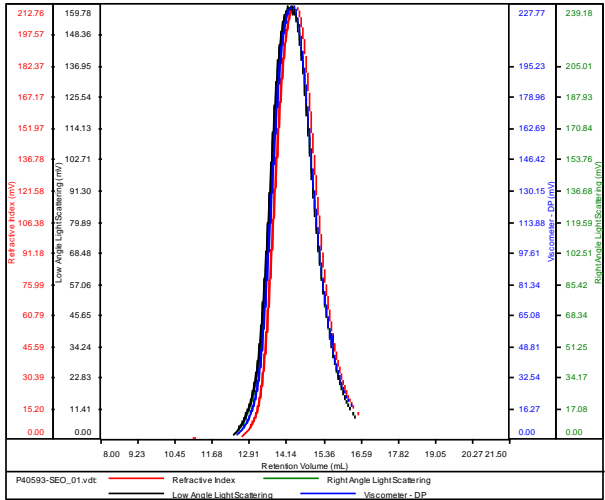


Sample	Mn	Mw	Mp	Mw/Mn	IV
P40593-S_01.vdt	136,396	144,473	135,483	1.059	0.2069

SEC elugram of the block copolymer:

P40593-SEO

Conc	19.9431
dn/dc	0.1320
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k-May2017-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40593-SEO_01.vdt	164,373	173,642	166,231	1.056	0.2154