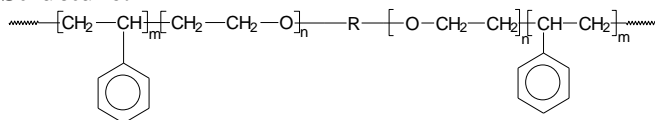


Sample Name: Poly(Styrene-*b*-Ethylene Oxide-*b*-Styrene)

Sample # P41412-SEOS

Structure:

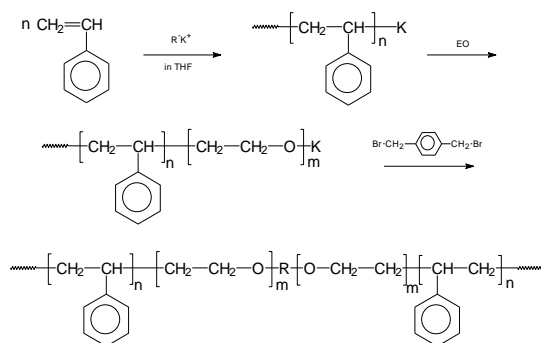


Composition:

$M_n \times 10^3$ S- <i>b</i> -EO- <i>b</i> -S	PDI
9.0- <i>b</i> -135.0- <i>b</i> -9.0	1.10

Synthetic Procedure:

Detailed synthesis is reported in ref.1.



Purification of the polymer:

To remove the unlinked fraction of the PS-PEO diblock copolymer, the product was passed through Silica column using various solvents as an eluent.

Characterization:

The polymer was analyzed by size exclusion chromatography (SEC) and proton NMR spectroscopy.

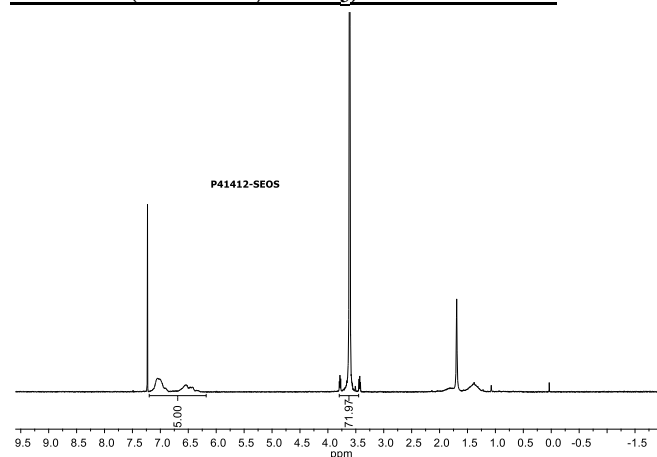
Solubility:

The polymer is soluble in THF, toluene, chloroform.

References:

1. S. K. Varshney, Xing Fu. Zhong, P. Kesani, N. Varshney; "Architecturally control polymers from Academia to the Industry"; ACS-Symposium, Orlando, August, 1996.

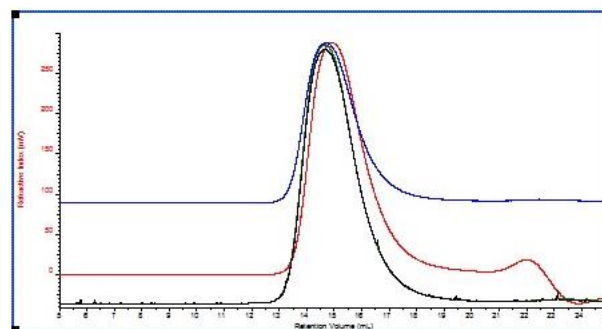
¹H-NMR (500 MHz, CDCl₃) of PS-PEO-PS:



SEC elugrams of PS-PEO and PS-PEO-PS:

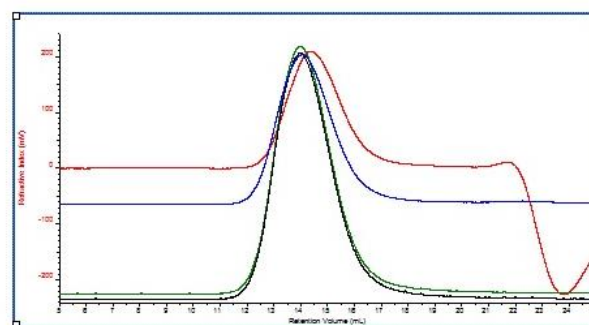
P41412-SEO

dn/dc	0.1650
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS old column-Oct2018-0001.vcm



P41412-SEOS

dn/dc	0.1650
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS old column-Oct2018-0002.vcm



Composition from HNMR