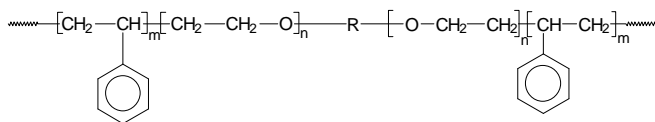


Sample Name: **Poly(Styrene-b-Ethylene Oxide-b-Styrene)**

Sample # **P18915-SEOS**

Structure:

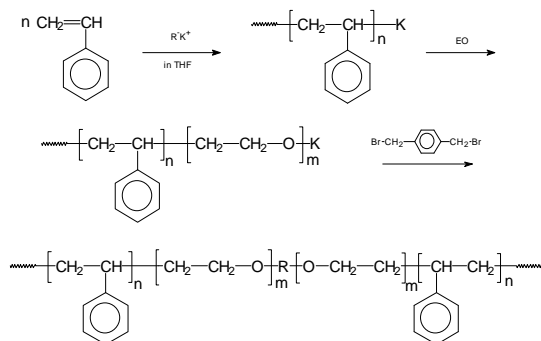


Composition:

Mn x 10 ³ S-b-EO-b-S	PDI
9.0-b-54.0-b-9.0	1.20

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.

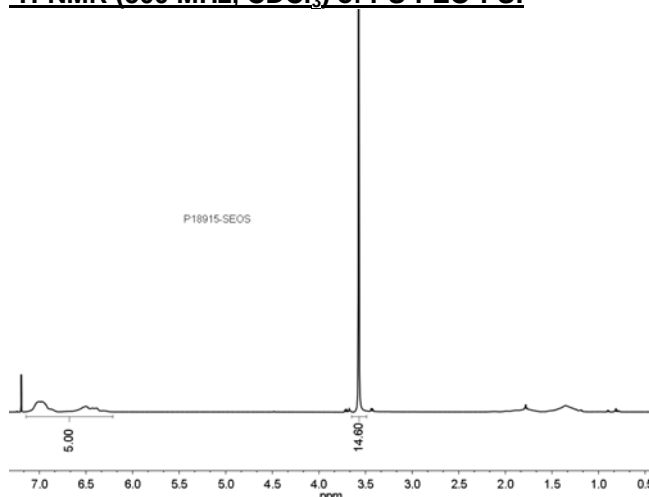
Solubility:

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.

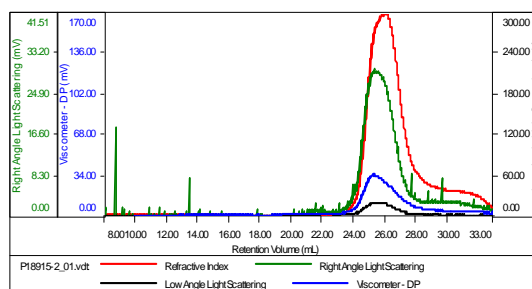
¹H-NMR (500 MHz, CDCl₃) of PS-PEO-PS:



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

Sample ID: P18915-SEO Before linking

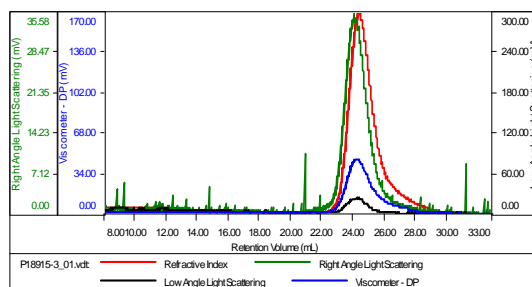
Concentration (mg/mL)	9.453
Sample dn/dc (mL/g)	0.1450
Method File	PS80K-NDV-2014-0003.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P18915-2_01.vdt	36,363	40,832	40,579	1.123	0.2388

Sample ID: P18915-SEOS

Concentration (mg/mL)	5.0479
Sample dn/dc (mL/g)	0.1300
Method File	PS80K-NDV-2014-0003.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P18915-3_01.vdt	67,683	81,782	81,115	1.208	0.4744