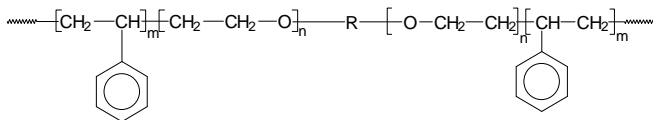


Sample Name:
Poly(styrene-b-ethylene oxide-b-styrene)

Sample #: P18788A-SEOS

Structure:

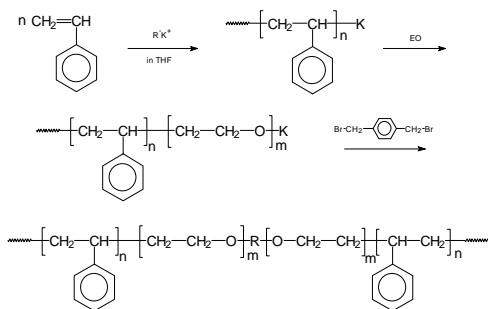


Composition:

Mn x 10 ³	PDI
10.5-b-48.0-b-10.5	1.24

Synthetic Procedure:

For detailed synthesis of this polymer, see ref. [1].



Characterization:

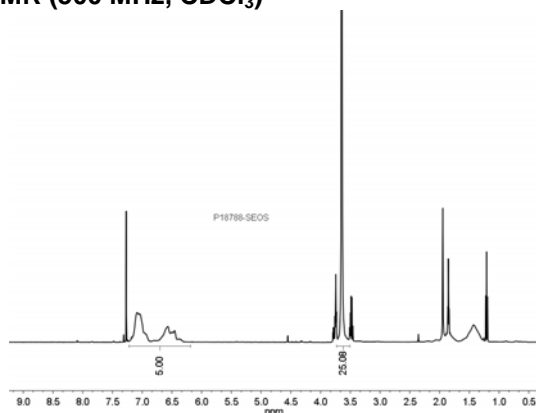
Polymer was analyzed by size exclusion chromatography (SEC) and by 1H-NMR spectroscopy.

Solubility:

The polymer is soluble in THF, toluene, and CHCl₃.

Purification of the polymer to remove unlinked fraction: Product was purified to remove the unlinked fraction of the diblock copolymer by passing the polymer solution (by taking different solvent mixture) through Silica column to remove unlinked fraction of Poly(St-b-EO).

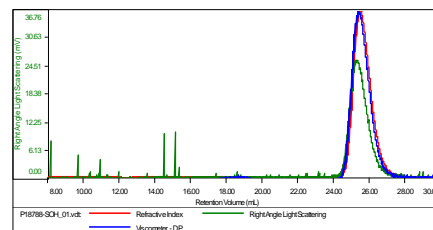
¹H-NMR (500 MHz, CDCl₃)



SEC elugram of PS block:

Sample ID: P18788-SOH

Concentration (mg/mL)	0.7465
Sample div/dc (mL/g)	0.1850
Method File	PS80K-July11-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

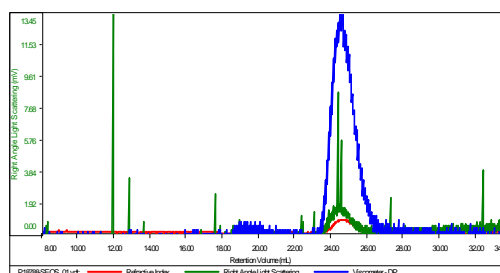


Sample	Mn	Mw	Mp	Mw/Mn	IV
P18788-SOH_01.vcl	10,422	11,124	10,831	1.067	0.6060

SEC elugram of PS-PEO-PS triblock copolymer:

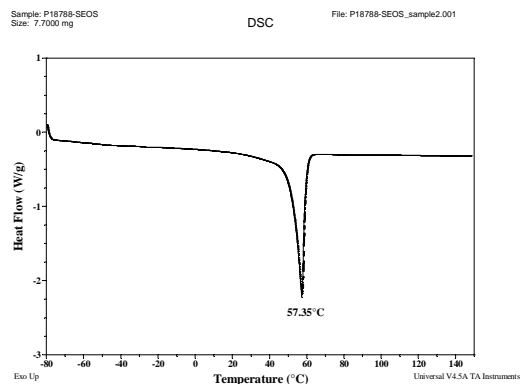
Sample ID: P18788-SEOS

Concentration (mg/mL)	0.0381
Sample div/dc (mL/g)	0.0320
Method File	PS80K-July11-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18788-SEOS_01.vcl	66,042	84,274	93,658	1.239	3.0947

DSC curve for PS-PEO-PS triblock copolymer
(2nd heating run, 10°C/min):



Reference:

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