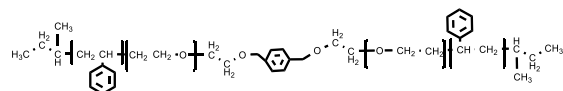


Sample Name:

Poly(styrene-b-ethylene oxide-b-styrene)

Sample#: **P44005-SEOS**

Structure:



Composition:

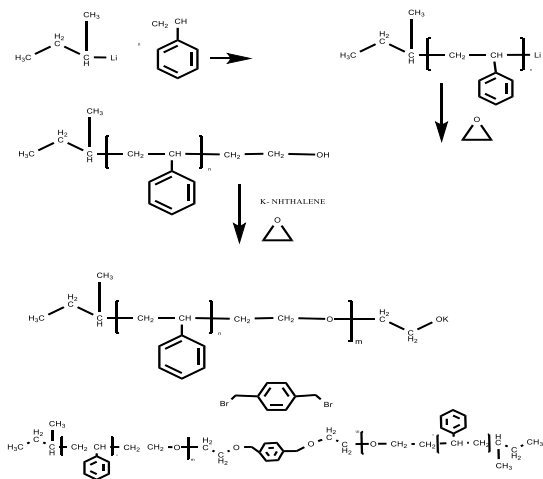
Mn x 10 ³ S-b-EO-b-S	PDI
8.0-b-65.0-b-8.0	1.15

Synthetic Procedure:

The detailed synthesis of this polymer has been reported.¹

Reference:

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

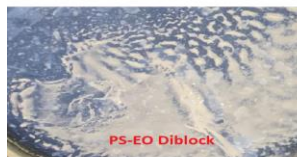


Characterization:

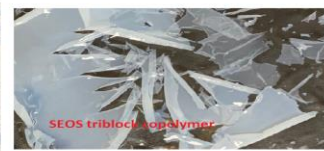
Polymer was analyzed by size exclusion chromatography (SEC) and by ¹H-NMR analysis.

Solubility:

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



Soft Gel fracture



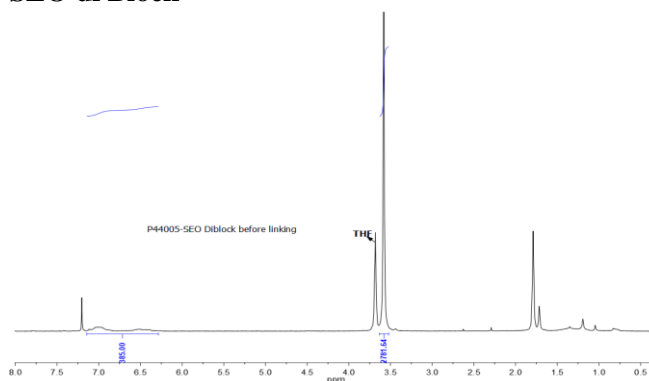
SEOS triblock copolymer: Film formation properties

Purification of the polymer to remove unlinked fraction:

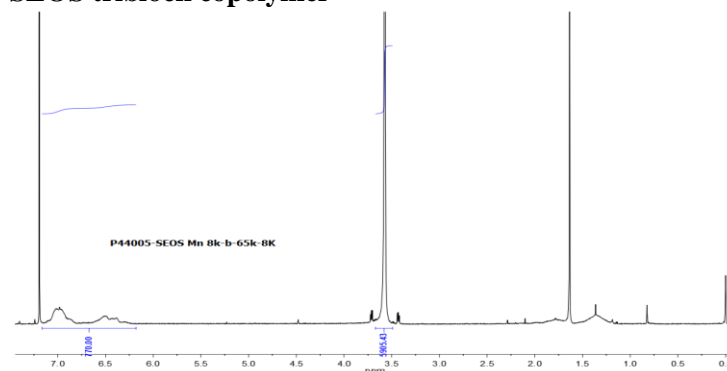
Product was purified to remove the unlinked fraction of diblock copolymer by passing the polymer solution in Toluene first (by taking different solvent mixture) though Silica column to remove unlinked fraction of Poly(St-b-EO) and then elute the triblock copolymer at 45 °C column temperature and THF as eluent. Product quality was checked by GPC.

¹H-NMR spectrum of the sample (500 MHz, CDCl₃):

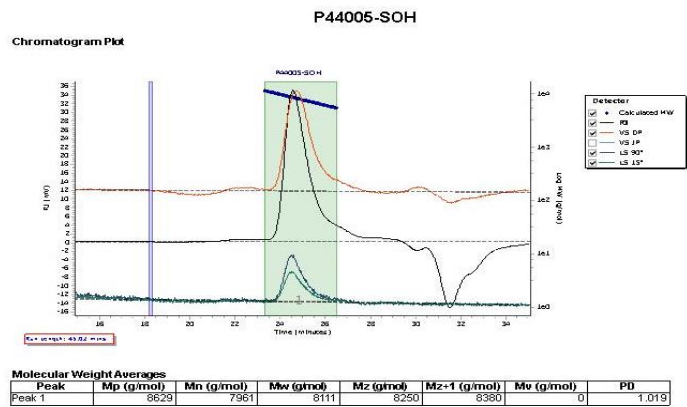
SEO di Block



SEOS triblock copolymer



SEC elugram of S-OH:



SEO elugram of the Sample:

