

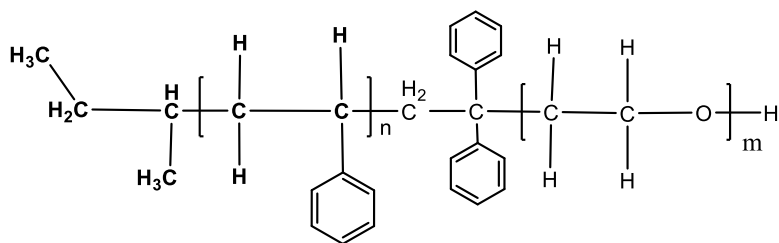
## Product Profile

### Identification

**Product Name:** Poly(styrene-b-ethylene oxide)

**Product Lot Number:** P44736-SEO

**CAS #:** Not Available **Product Chemical Architecture:**



**Composition:**

Composition (S-b-EO)	38,000-b-1,500
EO mole%	5
Mn (g/mole)	39,500
Mw (g/mole)	40,500
Mw/Mn	1.01
dn/dc (mL/g) in THF at 30 °C	0.176

### Method of Synthesis

The polymer is synthesized by anionic polymerization process.

**Solubility in different solvents:**

THF	√	DMF	√
Alcohol	X	CHCl <sub>3</sub>	√
Toluene	√	Water	X

### Validation of Architecture

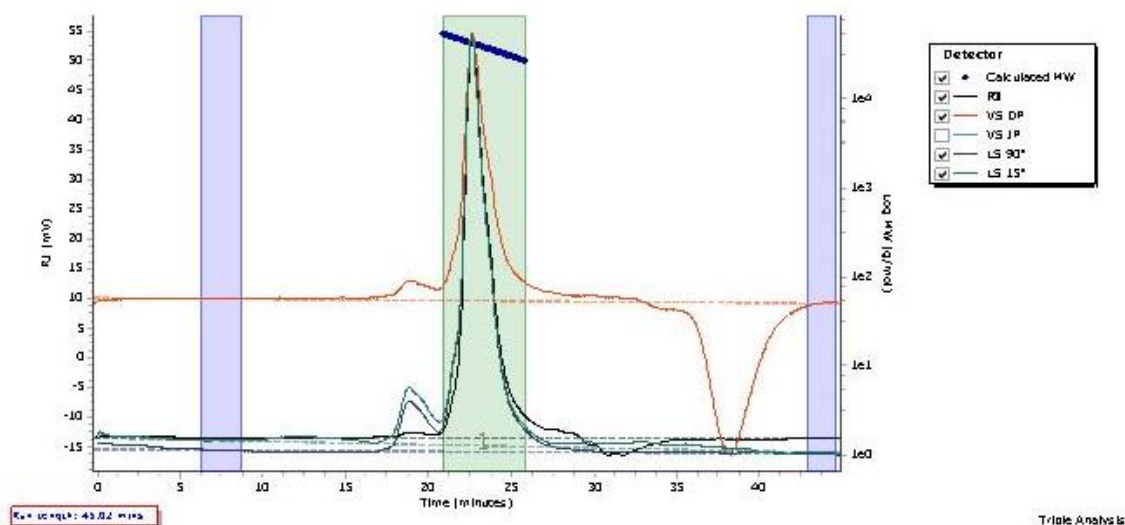
#### A. Gel Permeation Chromatography (GPC), SEC Profile:

Molecular weights were determined by Agilent Technologie 1260 Infinity II GPC/SEC System equipped with Triple detector (RI, Viscometer, RALS 90° and LS 15°) and three columns (PLgel, 7.5x300 mm, 5µm-10µm, 10<sup>5</sup>-10<sup>6</sup>Å). THF (stabilized BHT) with 1%(v/v%) TEA was the eluent. The flow rate was 1.0 ml/min.



P44736-SEO

Chromatogram Plot



Molecular Weight Averages

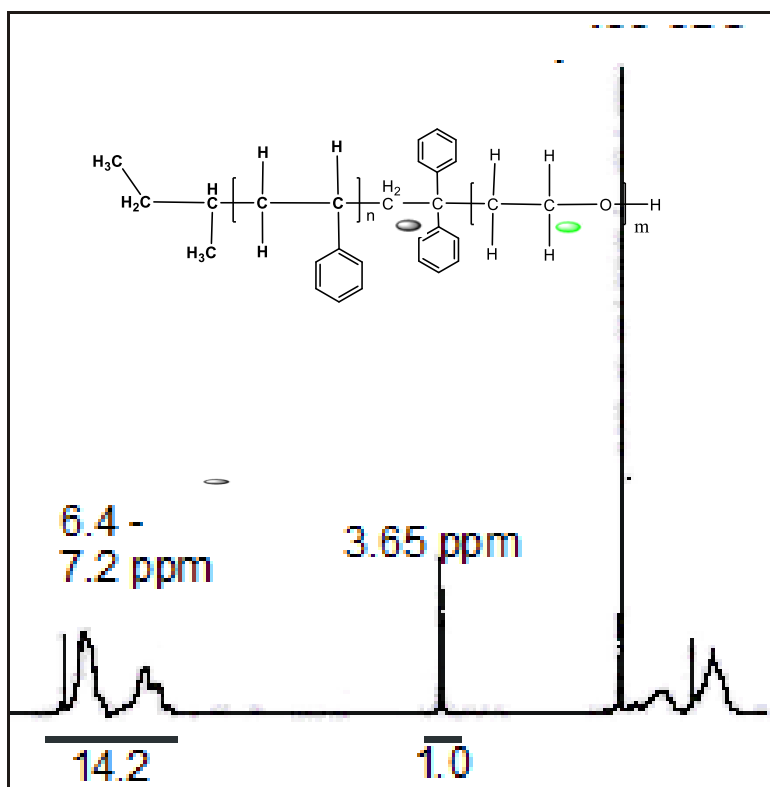
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	42462	39590	40213	40797	41344	40673	1.016

B. NMR (<sup>1</sup>H NMR) of SMMA

SMMA sample was dissolved in CDCl<sub>3</sub>. <sup>1</sup>H NMR spectra was determined using a 500 MHz. Bruker Avance III spectrometer.



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