



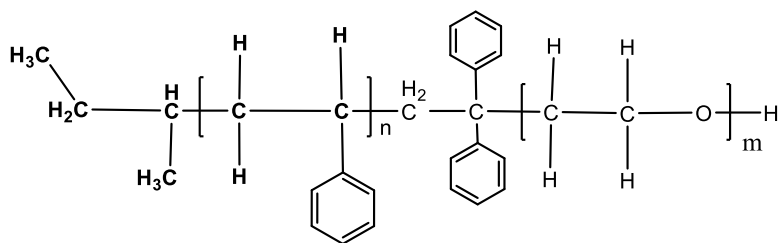
Product Profile

Identification

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

Product Lot Number: P44725-SEO

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



Composition:

Composition (S-b-EO)	247,000-b-2,000
EO mole%	2
Mn (g/mole)	249,000
Mw (g/mole)	252,000
Mw/Mn	1.01
dn/dc (mL/g) in THF at 30 °C	0.180

Method of Synthesis

The polymer is synthesized by anionic polymerization process.

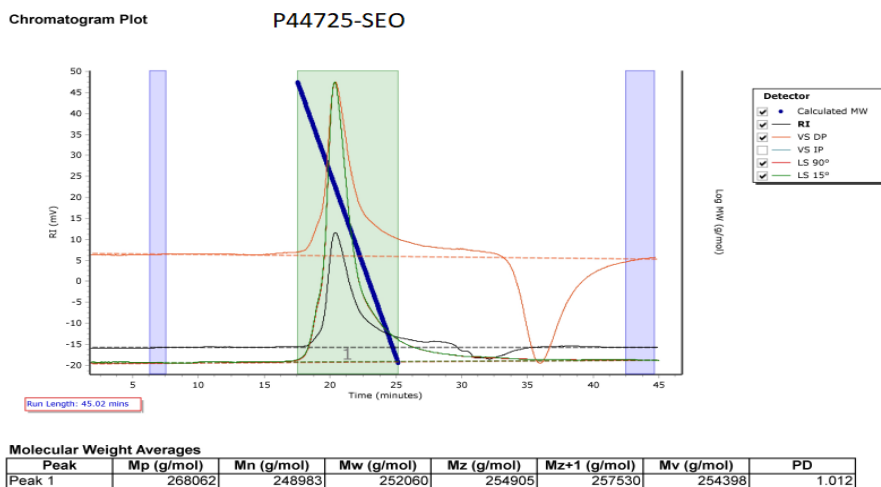
Solubility in different solvents:

THF	√	DMF	√
Alcohol	X	CHCl ₃	√
Toluene	√	Water	X

Validation of Architecture

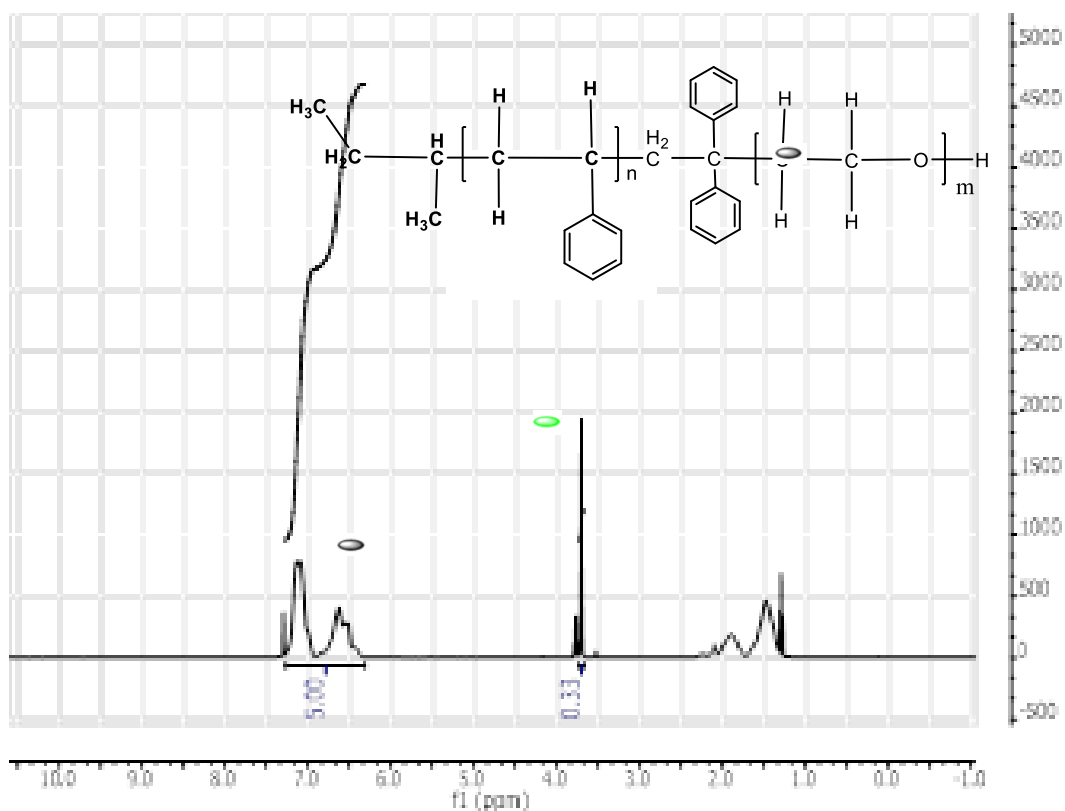
A. Gel Permeation Chromatography (GPC), SEC Profile:

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, 10⁵-10⁶Å). THF (stabilized BHT) with 1%(v/v%) TEA was the eluent. The flow rate was 1.0 ml/min.



B. NMR (^1H NMR) of SMMA

SMMA sample was dissolved in CDCl_3 . ^1H NMR spectra was determined using a 500 MHz. Bruker Avance III spectrometer.



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