



Product Profile

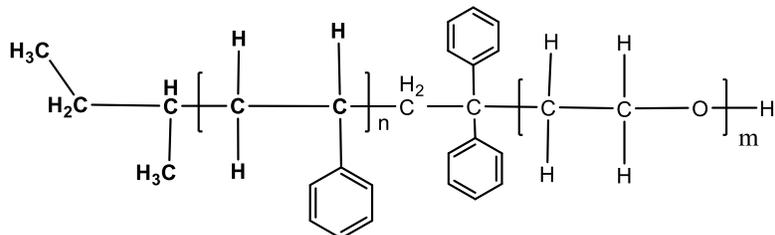
Identification

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

Product Lot Number: P44740-SEO

CAS #: Not Available

Product Chemical Architecture:



Composition:

Composition (S-b-EO)	3,000-b -59,000
EO mole%	97
Mn (g/mole)	63,000
Mw (g/mole)	63,500
Mw/Mn	1.01
dn/dc (mL/g) in THF at 30 °C	0.07

Method of Synthesis

The polymer is synthesized by anionic polymerization process.

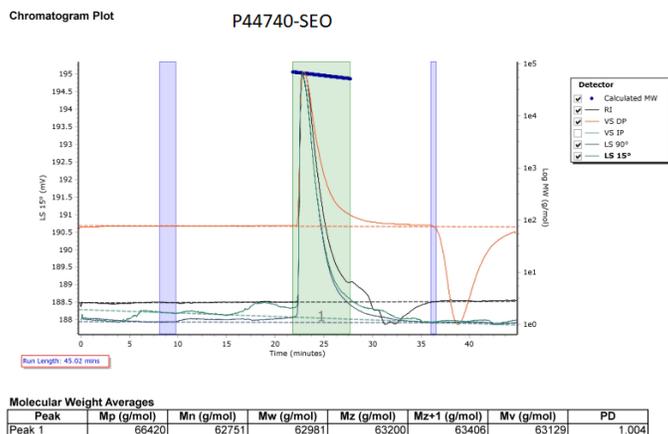
Solubility in different solvents:

THF	√	DMF	√
Alcohol	-	CHCl ₃	√
Toluene	Hot	Water	√

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 CDCl₃. ¹H NMR spectra was determined using a 500 MHz. Bruker Avance III spectrometer.

