



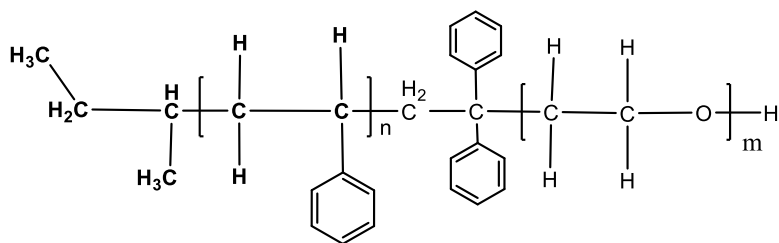
Product Profile

Identification

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

Product Lot Number: P44729-SEO

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



Composition:

Composition (S-b-EO)	235,000-b-41,000
EO mole%	15
Mn (g/mole)	276,000
Mw (g/mole)	293,000
Mw/Mn	1.06
dn/dc (mL/g) in THF at 30 °C	0.167

Method of Synthesis

The polymer is synthesized by anionic polymerization process.

Solubility in different solvents:

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

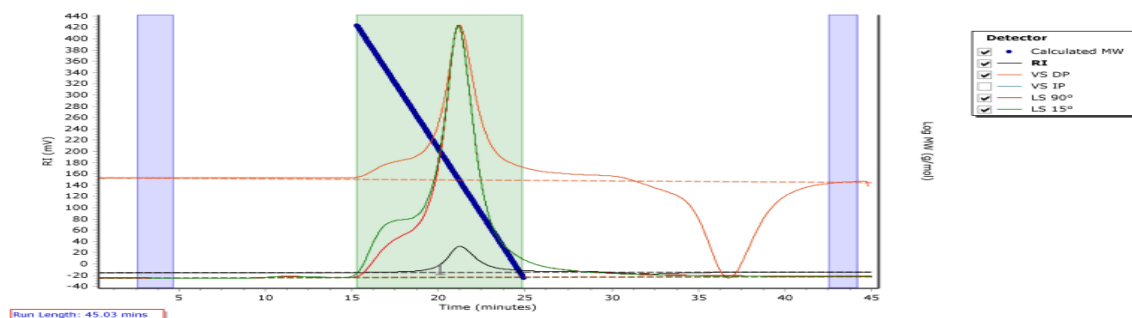
Validation of Architecture

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.

Chromatogram Plot

P44729-SEO



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	295208	276831	293672	313429	338776	308785	1.06

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.

