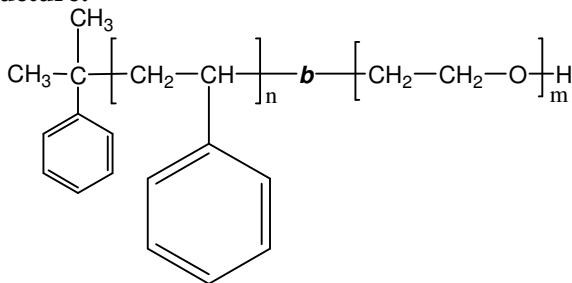


Sample Name: Poly(styrene-b-ethylene oxide)

Sample #: P19998-SEO

Structure:



Composition:

$M_n \times 10^3$	PDI
49.0-b-8.0	1.13

Synthesis Procedure:

Poly(styrene-b-ethylene oxide) diblock copolymer was synthesised by living anionic polymerization.

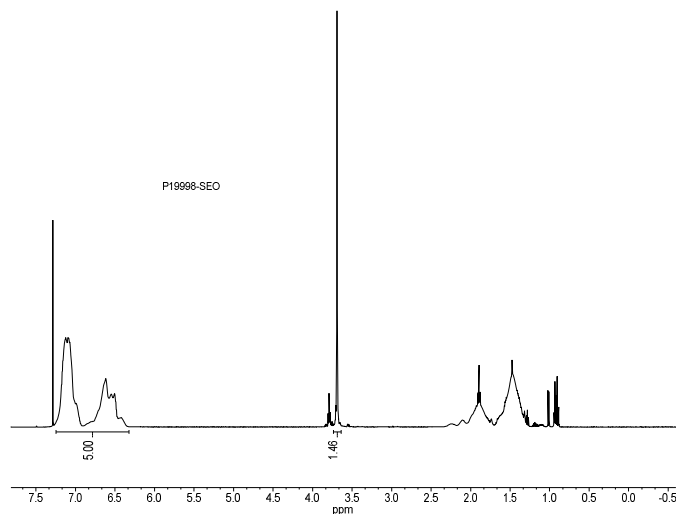
Characterization:

The polymer was characterized by ^1H NMR and size exclusion chromatography (SEC).

Solubility:

The polymer is soluble in THF (at 35 °C), CHCl_3 , benzene, toluene, dioxane. Low molecular weight SEO with high contents of the polyethylene oxide block can also be solubilized in methanol and water.

^1H NMR spectrum of the polymer:

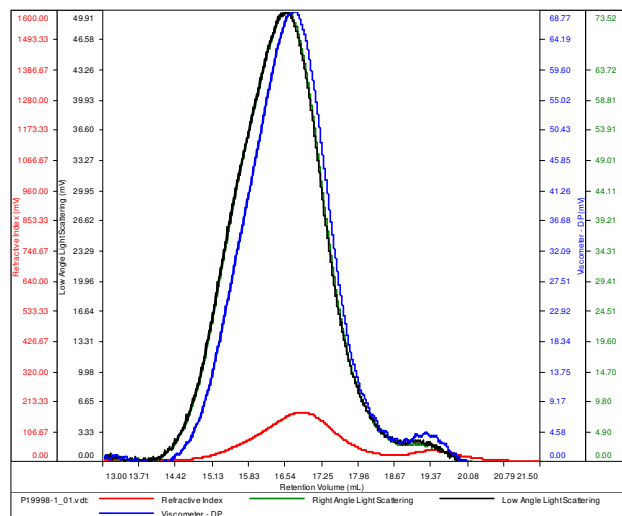


The melting temperature (T_m) was taken as a maximum of the endothermic peak.

For PS block: T_g : 85°C	
For PEO block:	
T_g : -63°C	T_m : 61°C

SEC elugram of the polymer:
P19998-1

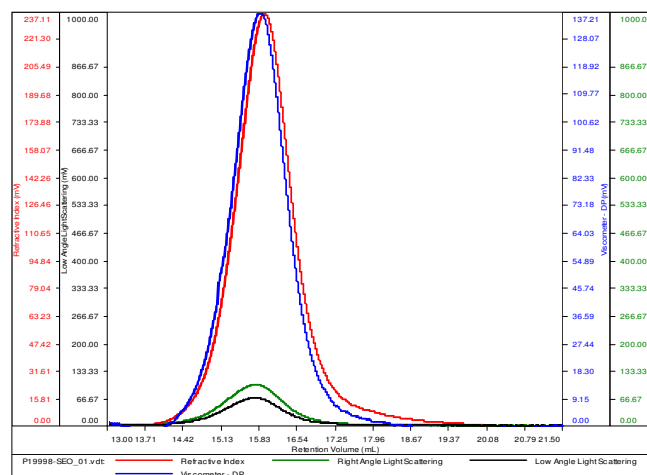
Conc (mg/mL)	7.2387
dn/dc (mL/g)	0.1650
Method	PS80k-May-25-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P19998-1_01.vdt	48,866	60,575	47,613	1.240	0.2019

P19998-SEO

Conc (mg/mL)	8.3368
dn/dc (mL/g)	0.1400
Method	PS80k-May-25-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P19998-SEO_01.vdt	59,350	67,396	61,340	1.136	0.2296

(v.K-01)