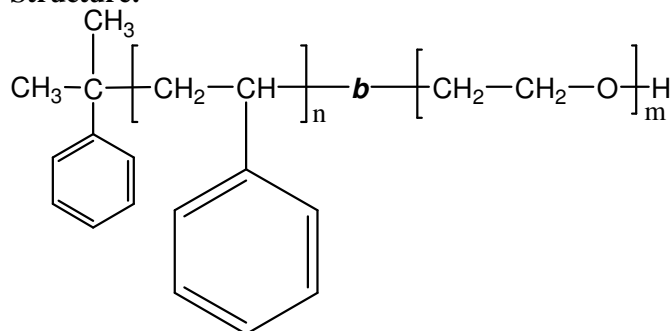


Sample Name: Poly(styrene-b-ethylene oxide)

Sample #: P40002-SEO

Structure:



Composition:

Mn x 10 ³	PDI
500.0-b-80.0	1.3

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), CHCl₃, benzene, toluene, dioxane. Low molecular weight SEO with high contents of the polyethylene oxide block can also be solubilized in methanol and water.

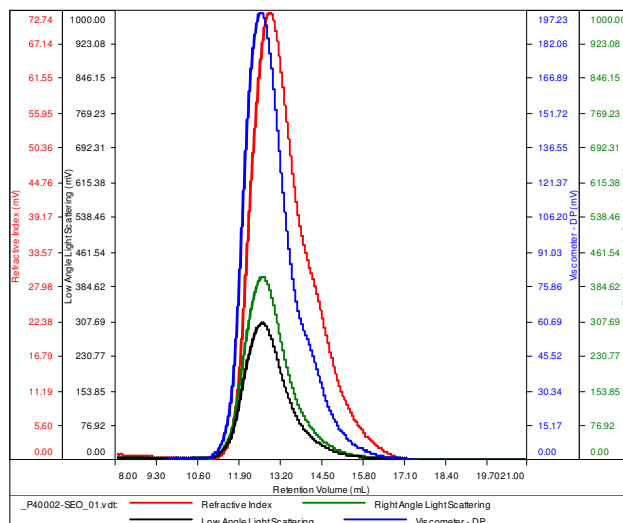
The melting temperature (T_m) was taken as a maximum of the endothermic peak.

For PS block: T _g : 85°C	
For PEO block:	
T _g : -63°C	T _m : 61°C

SEC elugram of the polymer:

P40002-SEO

Conc (mg/mL)	3.6812
dn/dc (mL/g)	0.1450
Method	PS80k-May-25-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
_P40002-SEO_01.vdt	570,606	755,576	875,210	1.324	0.9956

¹H NMR spectrum of the polymer:

