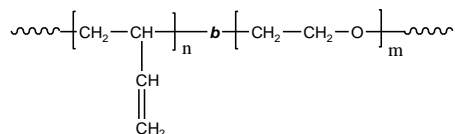


Sample Name: Poly (butadiene-b-ethylene oxide)

Sample #: P43223B1-BdEO

Poly butadiene rich in 1,2 microstructures

Structure



Composition:

Mn x 10 ³ Bd-b-EO	Mw/Mn (PDI)	% 1,2 addition Butadiene
1.8-b-0.9	1.04	>90.0

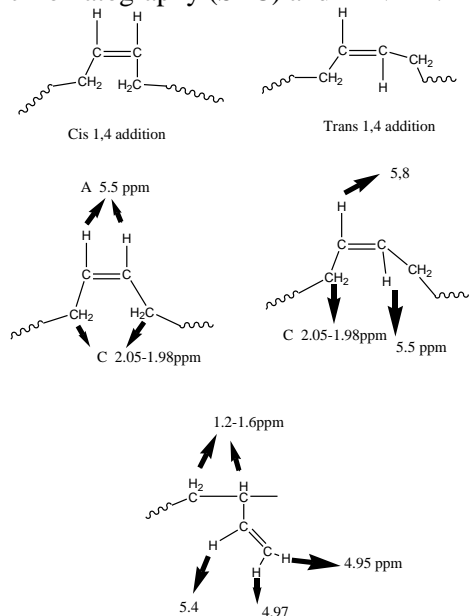
Dp:PBd(33)-b-PEO(20)

Synthesis:

The polymer was synthesized by anionic polymerization process.

Characterization:

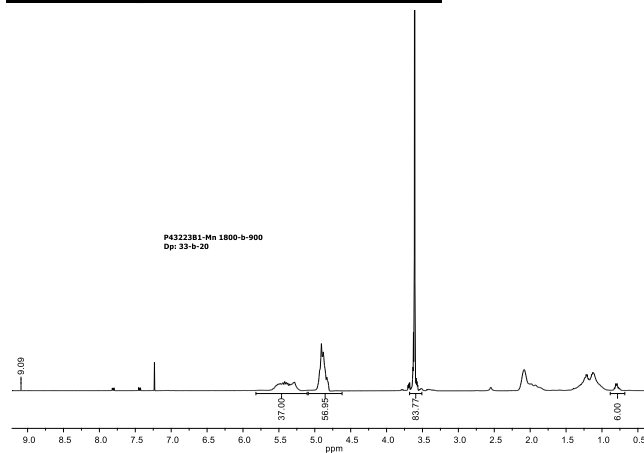
The product was characterized by size exclusion chromatography (SEC) and ¹H NMR.



Solubility:

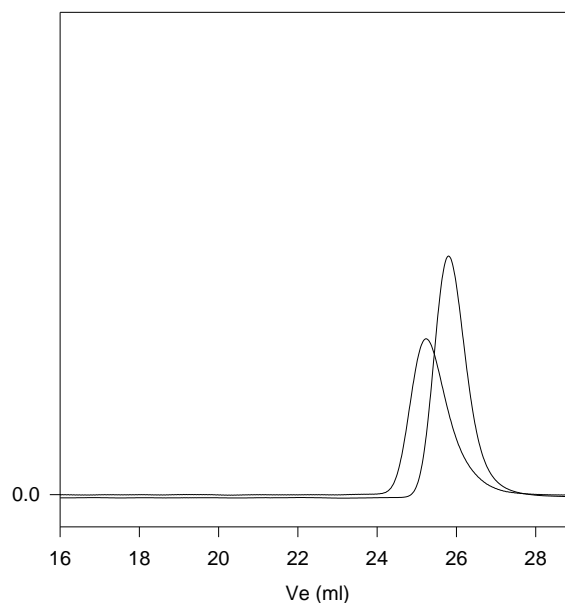
Polymer is soluble in DMF, THF, toluene, hexane, cyclohexane and CHCl₃.

¹H NMR spectrum of the Polymer:



SEC elugram of the Sample:

P43223B1-BdEO



Size exclusion chromatography of poly(butadiene-b-ethylene oxide):

- OH terminated 1,2 polybutadiene M_n=1,800, PI=1.09
- Block Copolymer PBd(1,800)-b-PEO(900), PI=1.04
(Chemical composition From ¹H NMR)