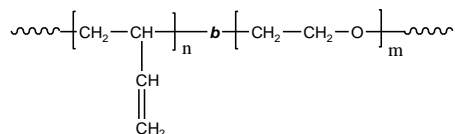


Sample Name: Poly (butadiene-b-ethylene oxide)

Sample #: P43224B1-BdEO

Poly butadiene rich in 1,2 microstructures

Structure



Composition:

Mn x 10 ³ Bd-b-EO	Mw/Mn (PDI)	% 1,2 addition Butadiene
2.7-b-1.7	1.04	>90.0

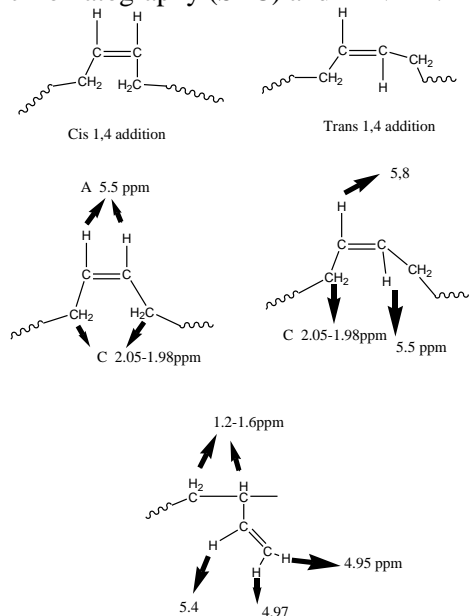
Dp:PBd(50)-b-PEO(32)

Synthesis:

The polymer was synthesized by anionic polymerization process.

Characterization:

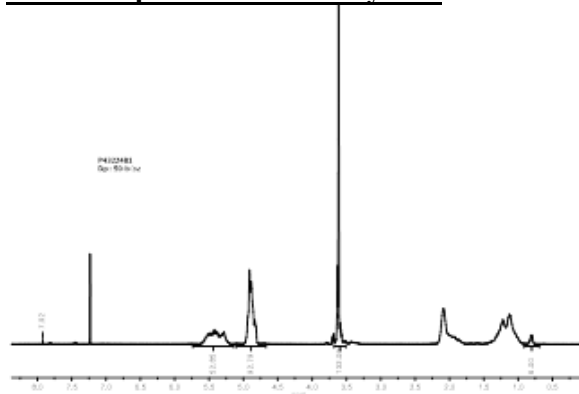
The product was characterized by size exclusion chromatography (SEC) and ¹HNMR.



Solubility:

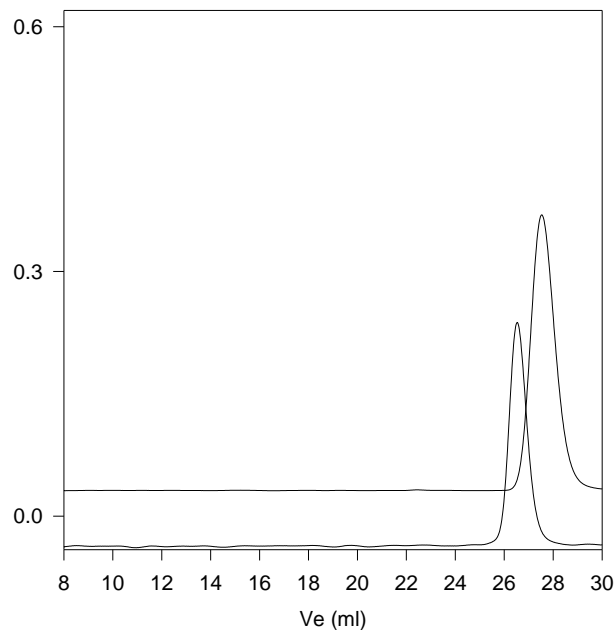
Polymer is soluble in DMF, THF, toluene, hexane, cyclohexane and CHCl₃.

¹H NMR spectrum of the Polymer:



SEC elugram of the Sample:

P43224B1-Bd_{1,2 rich}EO



Size Exclusion Chromatogram of Poly(butadiene-b-ethylene oxide)

— Polybutadiene: M_n=2700, M_w=2900, M_w/M_n=1.07

— PBd-b-PEO: M_n PBd(2700)-PEO(1700), M_w/M_n=1.04

The Mn of PEO is calculated from NMR results,