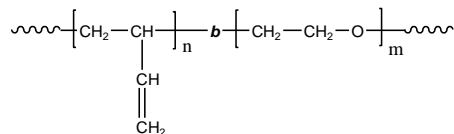


**Sample Name: Poly (butadiene-b-ethylene oxide)**

**Sample #: P43223A1-BdEO**

*Poly butadiene rich in 1,2 microstructures*

### Structure



### Composition:

| Mn x 10 <sup>3</sup><br>Bd-b-EO | Mw/Mn (PDI) | % 1,2 addition<br>Butadiene |
|---------------------------------|-------------|-----------------------------|
| 1.9-b-1.2                       | 1.04        | >90.0                       |

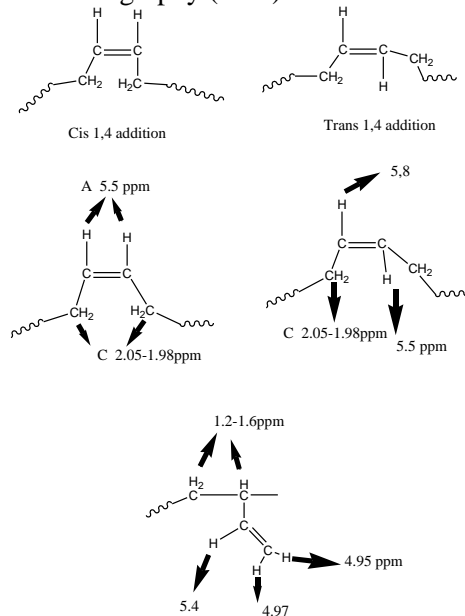
Dp: PBd(35)-b-PEO(27)

### Synthesis:

The polymer was synthesized by anionic polymerization process.

### Characterization:

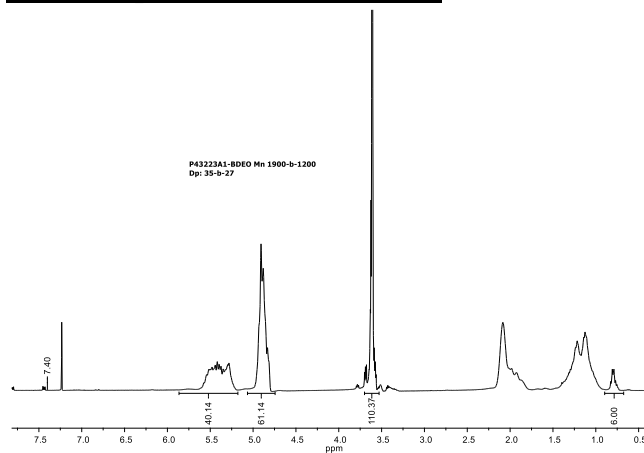
The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>HNMR.



### Solubility:

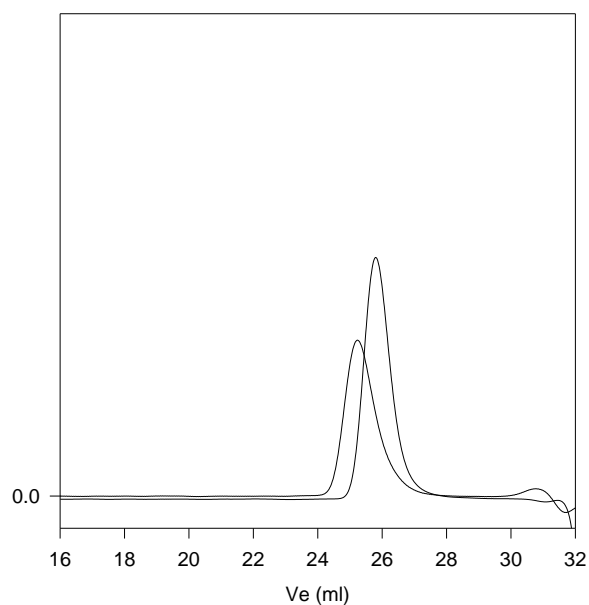
Polymer is soluble in DMF, THF, toluene, hexane, cyclohexane and CHCl<sub>3</sub>.

### <sup>1</sup>H NMR spectrum of the Polymer:



### SEC elugram of the Sample:

**P43223A1-BdEO**



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

- OH terminated 1,2 polybutadiene M<sub>n</sub>=1,900, PI=1.09
- Block Copolymer PBd(1,900)-b-PEO(1200), PI=1.04 (Chemical composition From <sup>1</sup>HNMR)