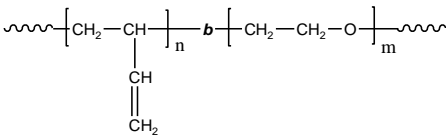


Sample Name: Poly(butadiene-b-ethylene oxide)

Sample #: P41332C-BdEO

Structure:



Composition:

Mn x 10 ³ Bd-b-EO	Mw/Mn (PDI)	% 1,2 addition Butadiene
2.2-b-1.0	1.10	59%
Dp: of each block: 41-b-23		

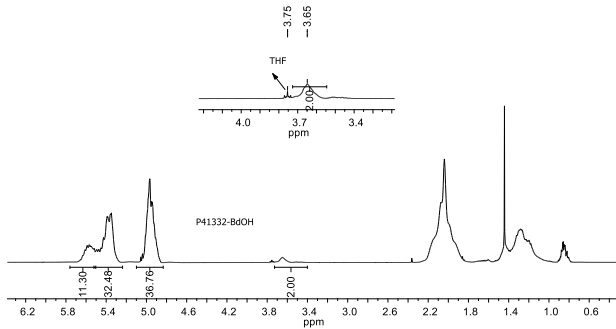
Synthesis:

The polymer was synthesized by anionic polymerization process.

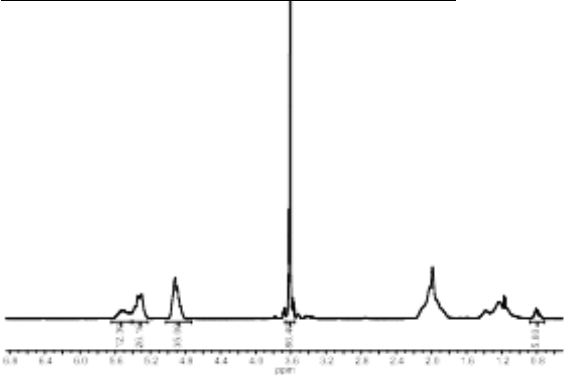
Characterization:

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

¹H NMR spectrum of BdOH Sample:



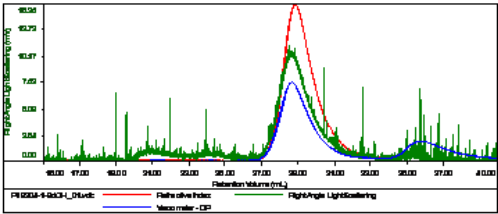
¹H NMR spectrum of BdEO Sample:



SEC elugram of BdOH Sample:

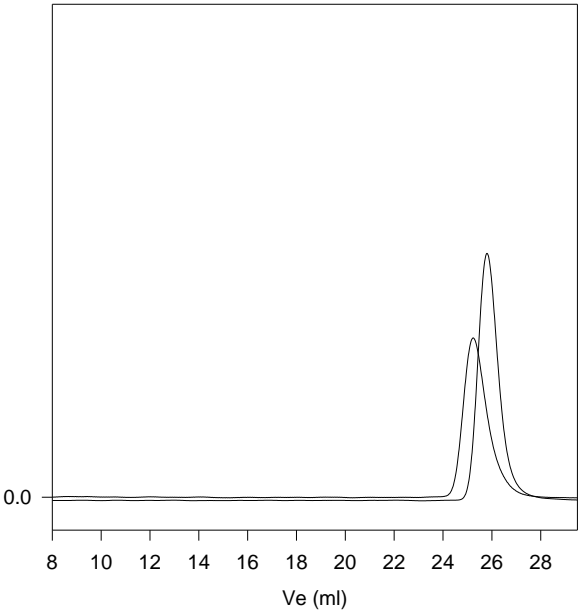
P41332-BdOH

Concentration (mg/mL)	19.3552
Sample elution (mL)	0.1270
Mobile Phase	PHOSPHORIC ACID 0.15000000000000000
Column ID	2x PL 11345000
Solvent	THF



Sample	MW/NMR Average [Da]	MW/SEC Average [Da]	MW/SEC Peak [Da]	Polydispersity [PDI]	Intrinsic Viscosity [dL/g]
BdOH-D1-10	2,152	2,190	2,174	1.017	0.1552

SEC elugram of BdEO Sample:



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

— OH terminated 1,2 polybutadiene M_n=2,200, PI=1.09