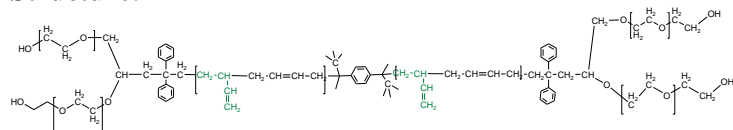


**Sample Name: H-Type architecture of Polybutadiene and Poly(ethylene oxide)**

**Sample # P3146-HBdEO**

**Structure:**

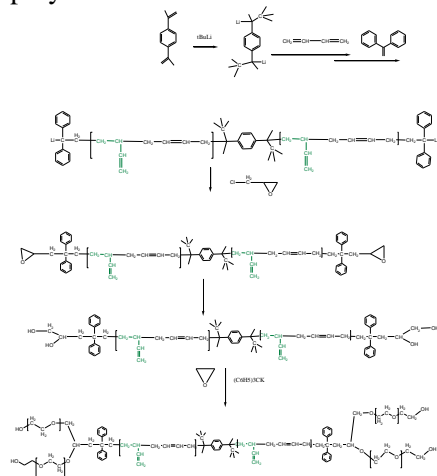


**Composition:**

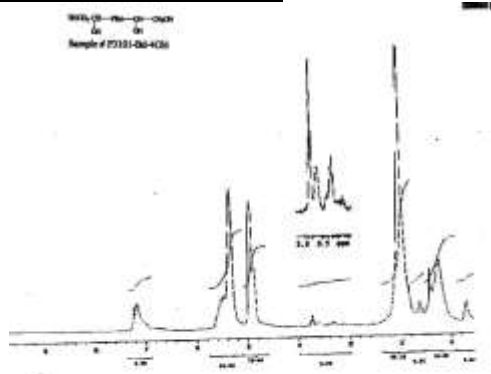
$M_n \times 10^3$ of one PBd center arm (g/mol)	Total $M_n \times 10^3$ (g/mol)	PDI
8.0	26.5	1.3
Mn of PEO branch: 4.5		

**Synthesis:**

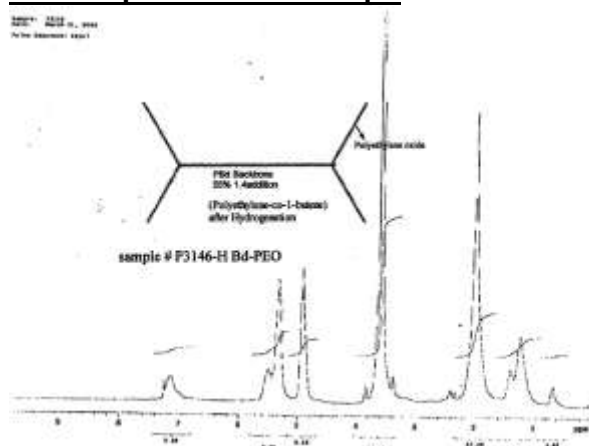
The polymer was synthesized by anionic process polymerization.



**HNMR spectrum of Bd-4OH**

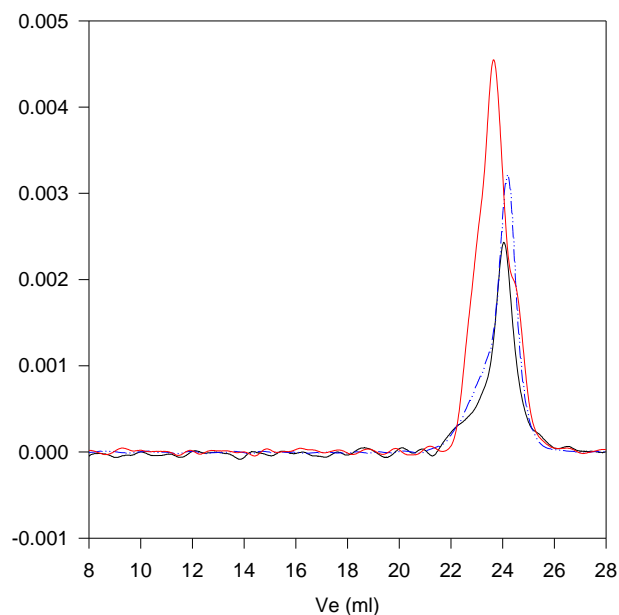


**HNMR spectrum of the sample**



**SEC elugram of the polymer**

**P3146-H BdEO**



Size Exclusion Chromatography:

— PBd-Center Bar,  $M_n=8000$ ,  $M_w=10500$ ,  $M_w/M_n=1.3$

- - -  $\alpha,\omega$  Epoxy terminated PBd Center bar:  $M_w/M_n=1.30$

— Final multi-arm H type architecture: Data from light scattering:  
 $M_{w\text{total}}=26500$ ,  $M_w/M_n=1.30$

PEO branch  $M_n$  from H NMR: 4500