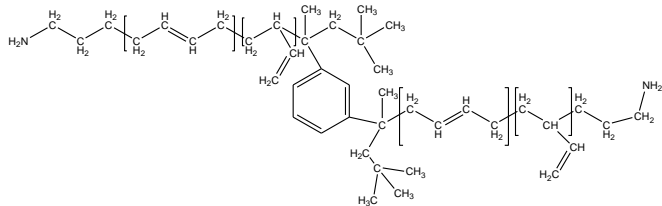


**Sample Name:**  $\alpha$ - $\omega$ -Diamino terminated polybutadiene  
1, 4- rich microstructure

**Sample #:** P41330-Bd2NH2

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
2.5	1.10

Functionality	>90%
T <sub>g</sub>	-45°C
1,4 addition	70%

**Synthesis Procedure:**

The polymer was prepared by anionic polymerization process using Bifunctional initiator.

**Characterization:**

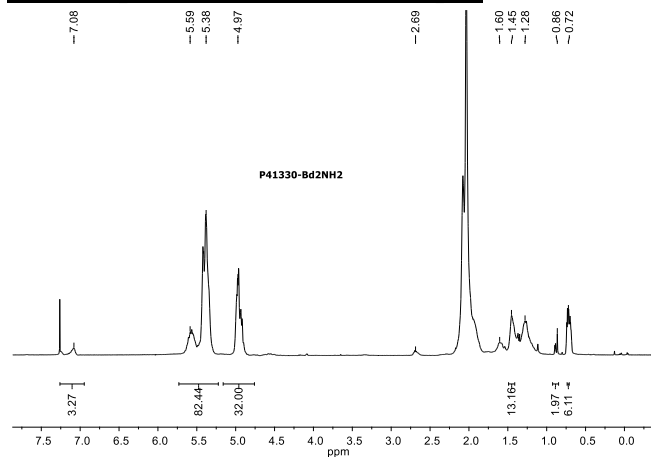
The polymer was characterized by SEC and <sup>1</sup>H NMR.

**Functionality:**

The functionality of polymer was determined by the titration with HClO<sub>4</sub> using crystal violet as the indicator.

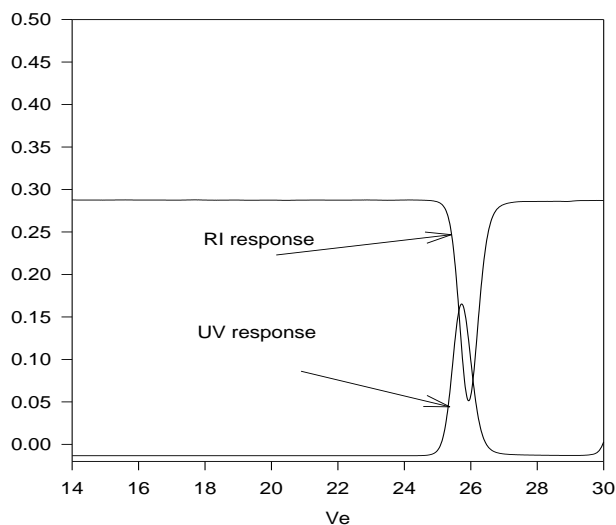
**<sup>1</sup>H NMR of sample of NH2 protected polymer:**

**HNMR spectrum of Bd2NH2 Sample:**



**SEC elugram of the Sample:**

**P41330-BdNH2 (1, 4 addition)**



Size Exclusion Chromatography :

- Mn: 2,500 Mw: 2,800 Mw/Mn 1.11 Functionality: > 90%
- UV response at 290nm after end capping NH2 group with 1-Naphthyl isocyanate

