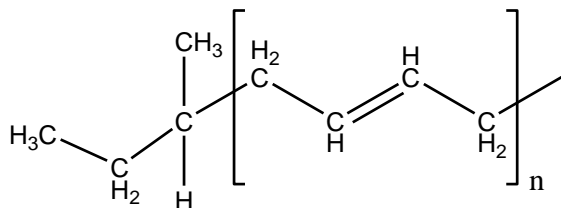


Sample Name:  
**Polybutadiene (1, 4-rich microstructure)**

Sample #: **P44213-Bd**

**Structure:**



**Composition:**

| Mn x 10 <sup>3</sup> | Mw/Mn | 1,4 addition |
|----------------------|-------|--------------|
| 412.0                | 1.21  | >92%         |

**Synthesis Procedure:**

The 1,4-addition polybutadiene was prepared by anionic living polymerization of butadiene in non-polar media.

**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H-NMR spectroscopy.

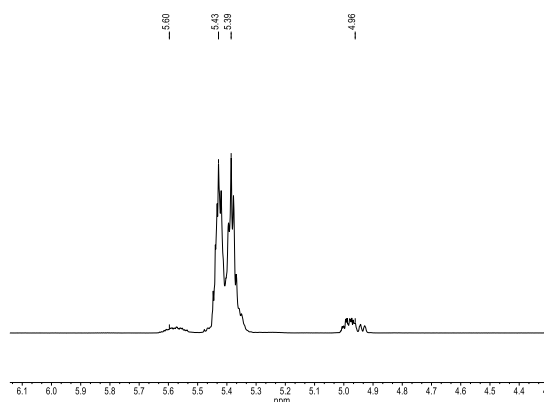
**Microstructure:**

The ratio between 1,4- and 1,2-addition was calculated by <sup>1</sup>H-NMR spectroscopy.

**Solubility:**

Polybutadiene is soluble in THF, toluene, hexane, cyclohexane and CHCl<sub>3</sub>. It precipitates from methanol, ethanol, and water.

**<sup>1</sup>H-NMR spectrum of the polymer:**



**SEC elugram of the polymer in THF at 30 °C:**

