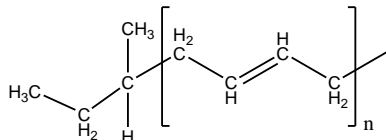


Sample Name:  
**Polybutadiene (1, 4-rich microstructure)**

Sample #: **P45245C-Bd**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	Mw/Mn	1,4 addition
150.0	1.02	>92%

**Synthesis Procedure:**

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

**Characterization:**

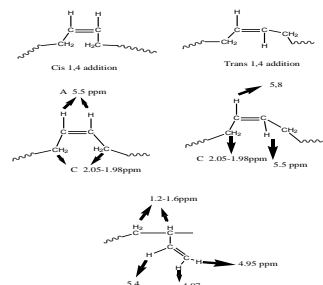
The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H-NMR spectroscopy.

**Microstructure:**

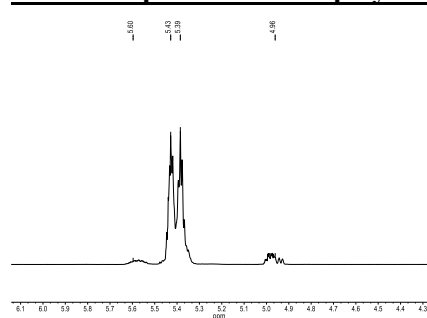
The ratio between 1,4- and 1,2-addition was calculated by <sup>1</sup>H-NMR spectroscopy.

**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:**

