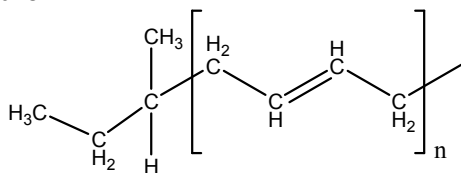


**Sample Name:** Polybutadiene (1,4-rich microstructure)  
**Sample #:** P19299-Bd

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
2.2	1.04
PBd 1,4-addition	89%

**Synthesis Procedure:**

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

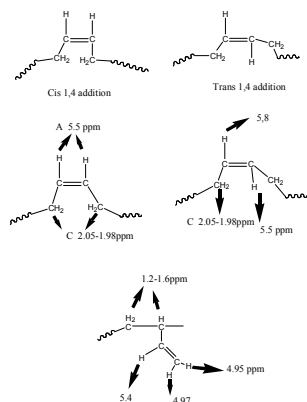
**Characterization:**

By GPC and HNMR.

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

**Solubility:**

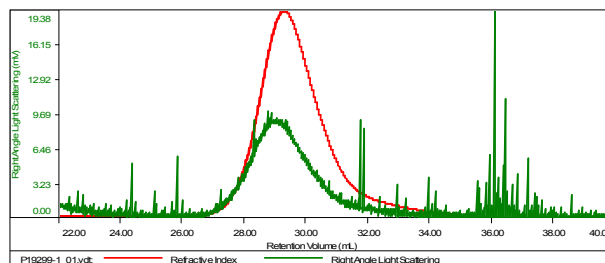
The polybutadiene is soluble in DMF, THF, toluene, hexane, cyclohexane and CHCl<sub>3</sub>. It precipitates from methanol, ethanol and water.



**SEC of Sample:**

**Sample ID:** P19299-1-BdOH

Concentration (mg/mL)	17.3945
Sample elution (mL/g)	0.1270
Method File	PS80K-May20-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19299-1_01.vcl	2,218	2,302	2,294	1.038	0.1723

**<sup>1</sup>H NMR spectrum:**

