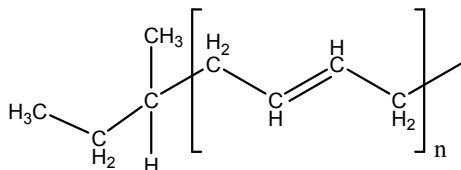


Sample Name: Polybutadiene (1, 4-rich microstructure)

Sample #: P19372-Bd

Structure:



Composition:

Mn x 10 ³	PDI
415.0	1.15
1,4 addition	>92%

Synthesis Procedure:

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

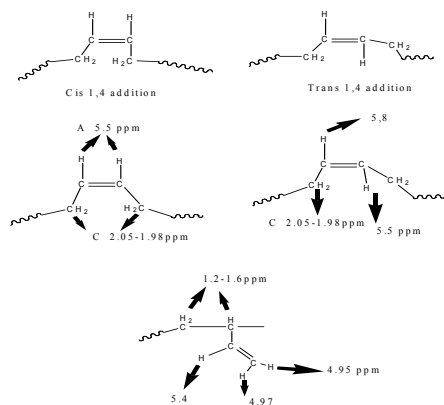
Characterization:

By GPC and HNMR.

Microstructure: The ratio between 1,4- and 1,2-addition was calculated by ¹H NMR spectroscopy.

Solubility:

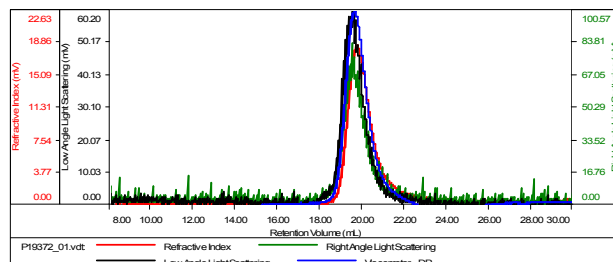
The polybutadiene is soluble in DMF, THF, toluene, hexane, cyclohexane and CHCl₃. It precipitates from methanol, ethanol and water.



SEC of Sample:

Sample ID: P19372-Bd

Concentration (mg/mL)	0.1943
Sample dn/dc (mL/g)	0.1250
Method File	PS80K-June30-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polycdispersi	Intrinsic Viscosity (dL/g)
P19372_01.vclt	415,661	479,929	464,231	1.155	14.0337

