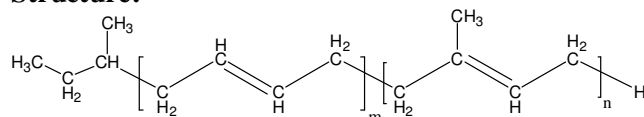


**Sample Name:** Polybutadiene-*b*-polyisoprene  
(predominantly 1,4-addition)

**Sample #** P19578-BdIp

**Structure:**



**Composition:**

Mn × 10 <sup>3</sup> (Bd-b-IP)	Mw/Mn
28.0-b-147.0.0 (by NMR)	1.05

**Synthesis Procedure:**

The polymer was synthesized by anionic polymerization in cyclohexane as solvent.

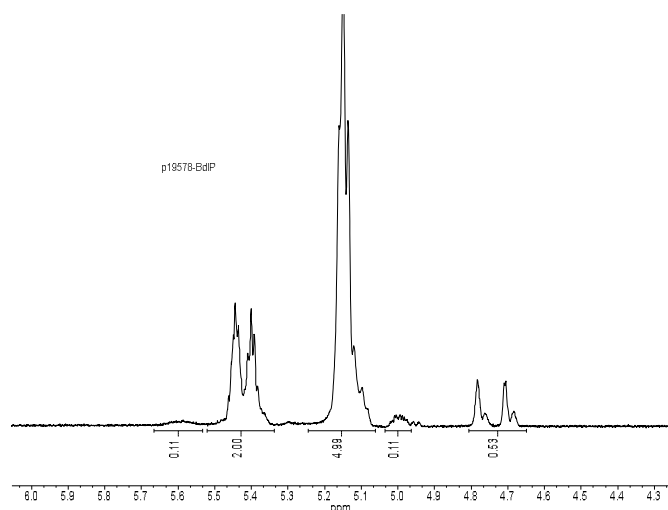
**Characterization:**

The polymer composition was analyzed by SEC and <sup>1</sup>H NMR analysis.

**Thermal analysis:**

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T<sub>g</sub>).

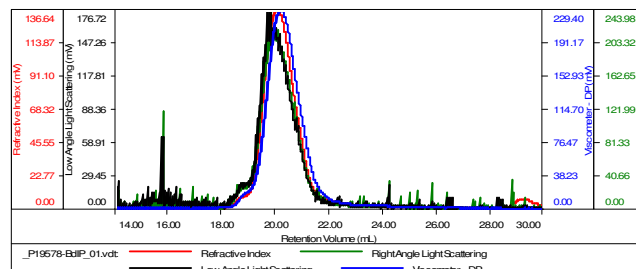
**<sup>1</sup>H NMR of Bd-IP diblock copolymer in CDCl<sub>3</sub>:**



**SEC elugram:**

**Sample ID-P19578-BdIP**

Concentration (mg/mL)	1.364
Sample dn/dc (mL/g)	0.1350
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)	Polydispersity	Intrinsic Viscosity (dL/g)
_P19578-BdIP_01.vct	175,366	183,370	176,245	1.046	6.9090