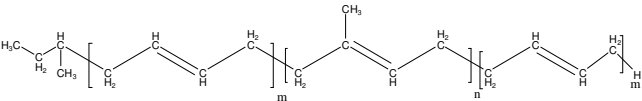


Sample Name: **Poly(Butadiene-b-Isoprene-b-Butadiene)** (predominantly in 1,4-addition)

Sample #: **P19643-BdIpBd**

Structure:



Composition:

$M_n \times 10^3$ <b>(Bd-b-IP-b-Bd)</b>	PDI
8.5-b-127.0-b-8.5 (by NMR)	1.09

Synthesis Procedure:

The polymer was synthesized by anionic polymerization using cyclohexane as a solvent.

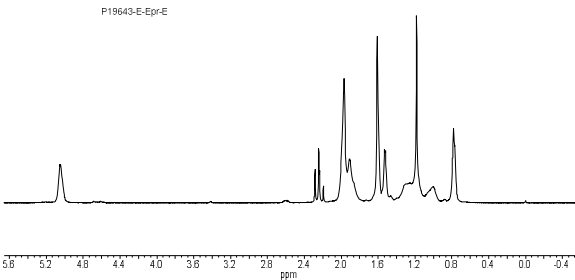
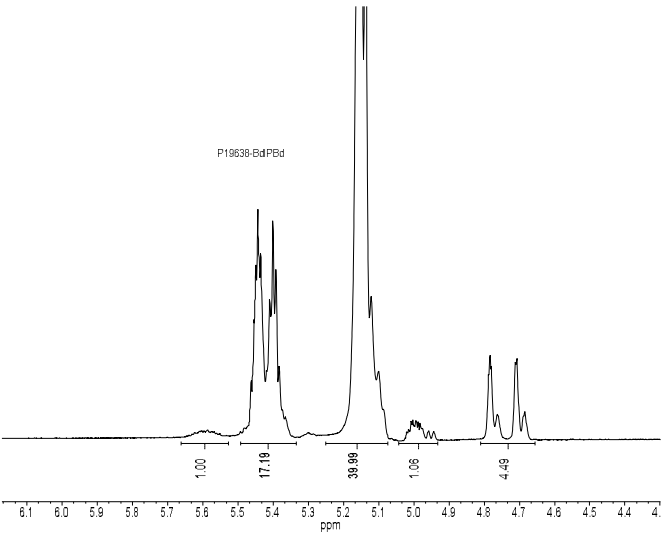
Characterization:

The polymer was analyzed by  $^1\text{H}$  NMR, SEC, DSC.

DSC thermal analysis:

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of  $10^\circ\text{C}/\text{min}$ . The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature ( $T_g$ ).

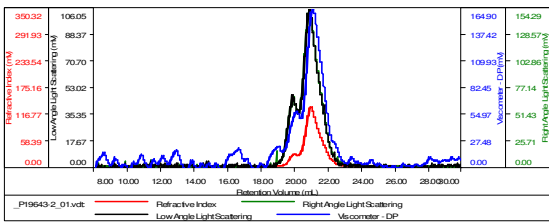
$^1\text{H}$  NMR of Bd-IP-Bd triblock copolymer in  $\text{CDCl}_3$ :



SEC of Bd-IP diblock copolymer:

Sample ID-P19643-2 Bd IP

Concentration (mg/mL)	1.076
Sample div/c (mL/g)	0.1250
Method File	PS80K-June00-2015-0000.vcm
Column Set	3x PL 1113-6000
Solvent	THF

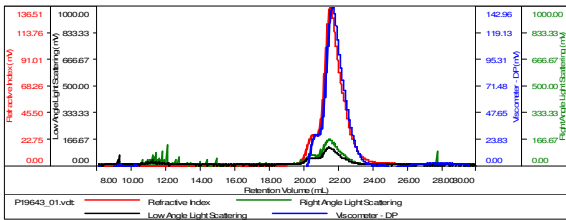


Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
_P19643-2, 01.vcl	137,173	130,597	128,841	1.018	5.8197

SEC of Bd-IP-Bd triblock copolymer:

Sample ID-P19643-BdIPBd

Concentration (mg/mL)	1.3394
Sample div/c (mL/g)	0.1250
Method File	PS80K-June00-2015-0000.vcm
Column Set	3x PL 1113-6000
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19643, 01.vcl	143,669	153,123	130,273	1.066	3.9949