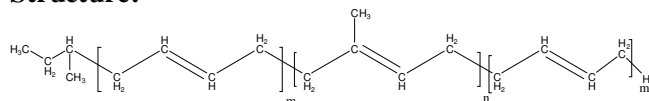


Sample Name: Poly(butadiene-b-isoprene-b-butadiene) (predominantly in 1,4-addition)

Sample #: P19638- BdIpBd

Structure:



Composition:

$M_n \times 10^3$ (Bd-b-IP-b-Bd)	PDI
7.5-b-75.5-b-7.5 (by NMR)	1.01

Synthesis Procedure:

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

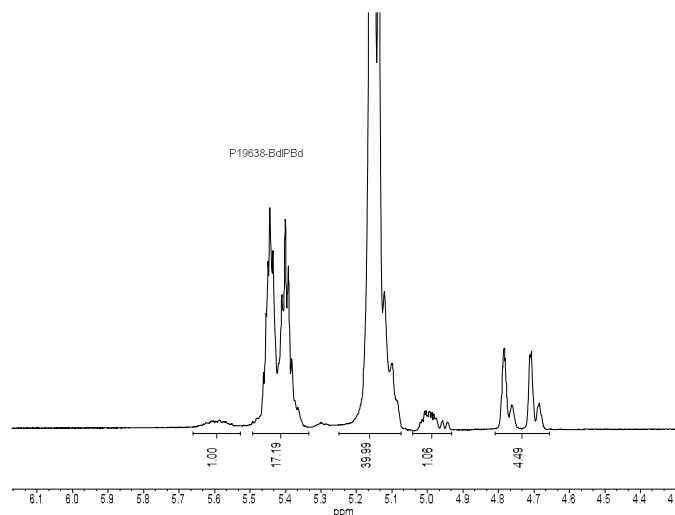
Characterization:

The polymer was analyzed by ^1H 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).

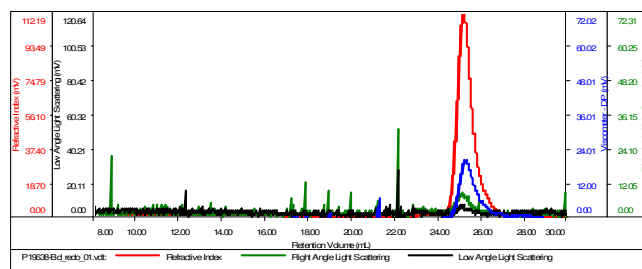
^1H NMR of Bd-IP-Bd triblock copolymer in CDCl_3 :



SEC of the first polybutadiene block:

Sample ID-P19638-Bd

Concentration (mg/mL)	0.7703
Sample dn/dc (mL/g)	0.1180
Method File	PS80K-June30-2015-0000.vom
Column Set	3x PL 1113-6300
Solvent	THF

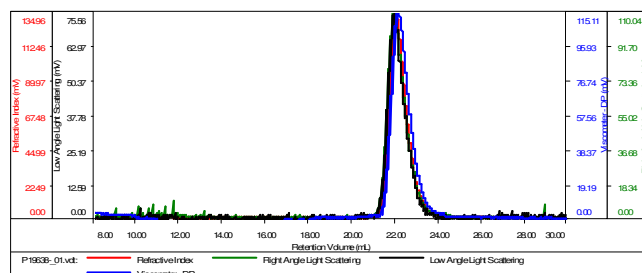


Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19638-Bd_redc_01.vot	7,464	7,662	6,792	1.027	0.6918

SEC of Bd-IP diblock copolymer:

Sample ID-P19638-BdIP

Concentration (mg/mL)	0.9169
Sample dn/dc (mL/g)	0.1320
Method File	PS80K-June30-2015-0000.vom
Column Set	3x PL 1113-6300
Solvent	THF

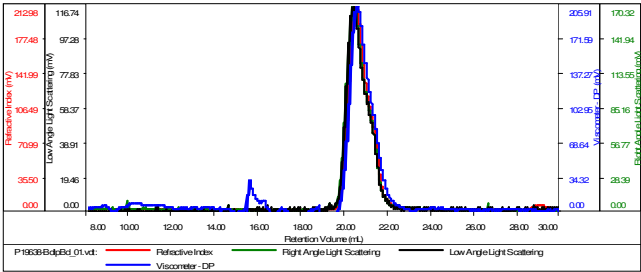


Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19638_01.vot	82,881	83,143	79,904	1.003	3.7890

SEC of Bd-Ip-Bd triblock copolymer:

Sample ID-P19638-BdIPBd

Concentration (mg/mL)	1.7553
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)	Polydispersi	Intrinsic Viscosity (dL/g)
P19638-BdIPBd_01.vdt	89,247	89,839	88,066	1.007	3.7138