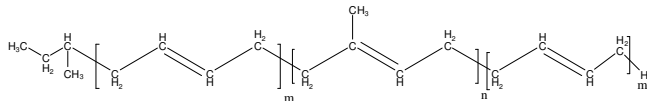


Sample Name:

Poly(Butadiene-b-Isoprene-b-Butadiene)
(predominantly in 1,4-addition)

Sample #: **P19572- BdIpBd**

Structure:



Composition:

$M_n \times 10^3$ (Bd-b-IP-b-Bd)	PDI
14.0-b-172.0-b-14.0 (by NMR)	1.02

Synthesis Procedure:

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

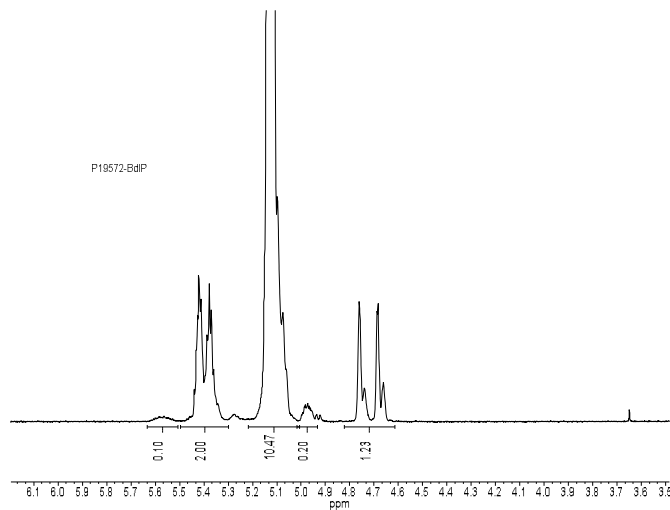
Characterization:

The polymer was analyzed by ^1H NMR, SEC, DSC.

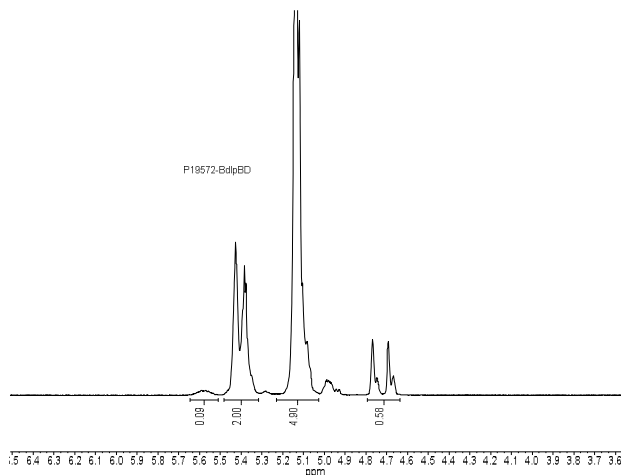
DSC thermal analysis:

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 diblock copolymer in CDCl_3 :



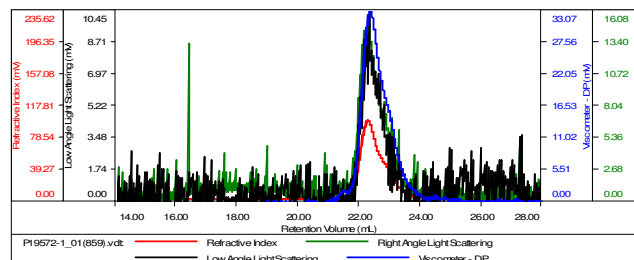
^1H NMR of Bd-IP-Bd triblock copolymer in CDCl_3 :



SEC of the first polybutadiene block:

Sample ID-P19572-1

Concentration (mg/mL)	0.6741
Sample dn/dc (mL/g)	0.1250
Method File	PS80K-June30-2015-0000.vcm
Column Set	3x PL 1113-6000
Solvent	THF

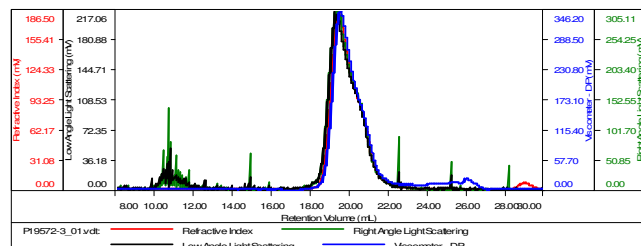


Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19572-1_01(859).vcl	15,085	15,138	14,466	1.007	1.3295

SEC of the polymer:

Sample ID-P19572-Bd-IP-Bd

Concentration (mg/mL)	2.1471
Sample dn/dc (mL/g)	0.1250
Method File	PS80K-June30-2015-0000.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)
P19572-3_01.vcl	201,014	205,048	194,722	1.020	6.8602