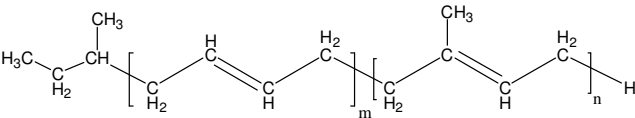


Sample Name: Polybutadiene-*b*-polyisoprene
(predominantly 1,4-addition)

Sample # P19568-BdIp

Structure:



Composition:

Mn × 10 ³ (Bd-b-Ip)	Mw/Mn
17.5-b-101.0 (by NMR)	1.10

Synthesis Procedure:

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

Characterization:

The polymer composition was analyzed by SEC and ¹H NMR analysis.

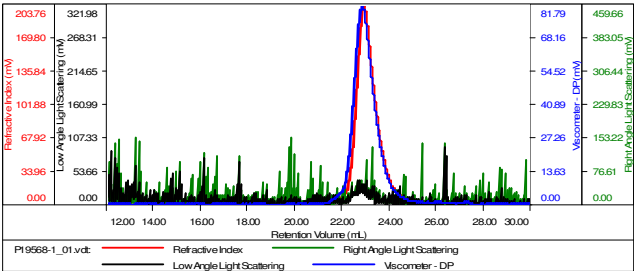
Thermal analysis:

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_g).

SEC of polybutadiene fist block:

Sample ID:P19568-Bd block

Concentration (mg/mL)	0.6079
Sample dn/dc (mL/g)	0.1250
Method File	PS80K-Nb-2015.0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

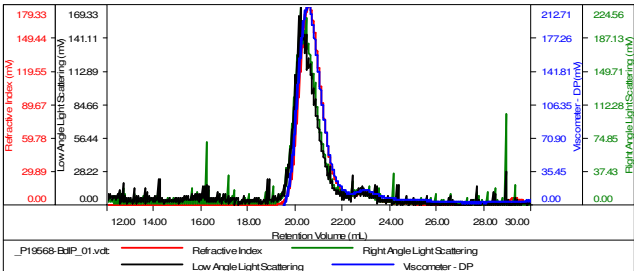


Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19568-1_01.vdt	17,673	21,914	14,887	1.240	3.8002

SEC of diblock copolymer:

Sample ID:P19568-BdIp

Concentration (mg/mL)	0.6146
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-Nb-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)
_P19568-BdIP_01.vdt	117,639	127,772	112,483	1.086	11.2125

¹H NMR of Bd-Ip diblock copolymer in CDCl₃:

