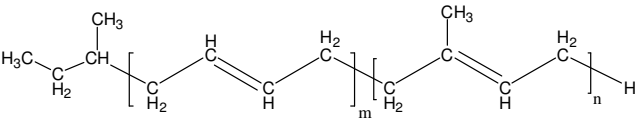


Sample Name: Polybutadiene-*b*-polyisoprene
(predominantly 1,4-addition)

Sample # P19574-BdIp

Structure:



Composition:

Mn × 10 ³ (Bd-b-IP)	Mw/Mn
25.0-b-146.0 (by NMR)	1.20

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.

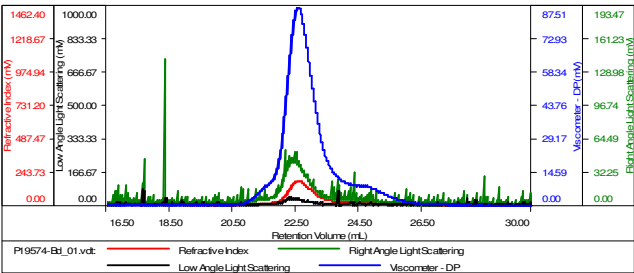
Thermal analysis:

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 first block:

Sample ID-P19574-Bd block

Concentration (mg/mL)	0.5392
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-Nov-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

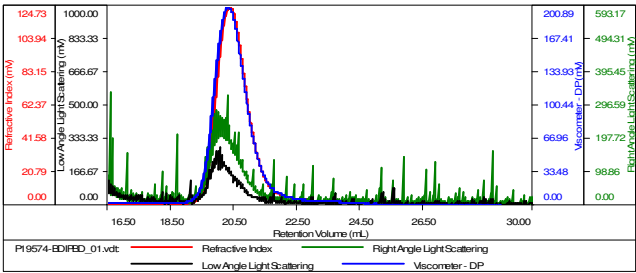


Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19574-Bd_01.vcl	25,230	27,658	22,937	1.096	5.2989

SEC of diblock copolymer:

Sample ID-P19574-BdIP AB diblock copolymer

Concentration (mg/mL)	0.3468
Sample dn/dc (mL/g)	0.1480
Method File	PS80K-Nov-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)
P19574-BdIPBD_01.vcl	171,416	206,990	173,649	1.208	17.1849

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

