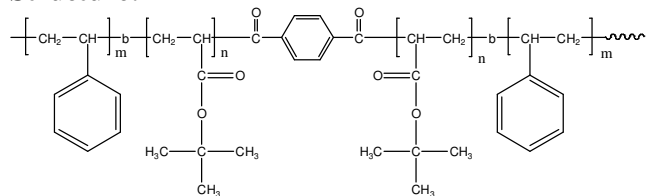


Sample Name:

Poly(styrene-b-tert butyl acrylate-b-styrene)

Sample #: P19591A-StBuAS

Structure:

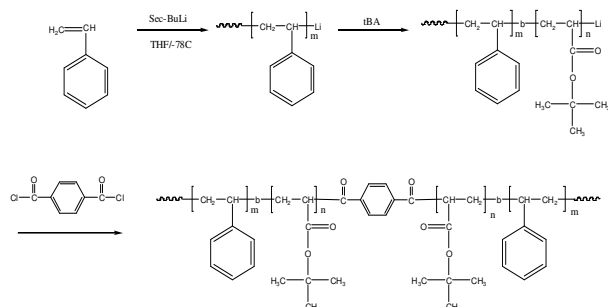


Composition:

Mn x 10 ³ (S-b-tBuA-S)	PDI
2.0-b-40.0-b-2.0	1.22

Synthesis Procedure:

The scheme of the reaction is illustrated below:



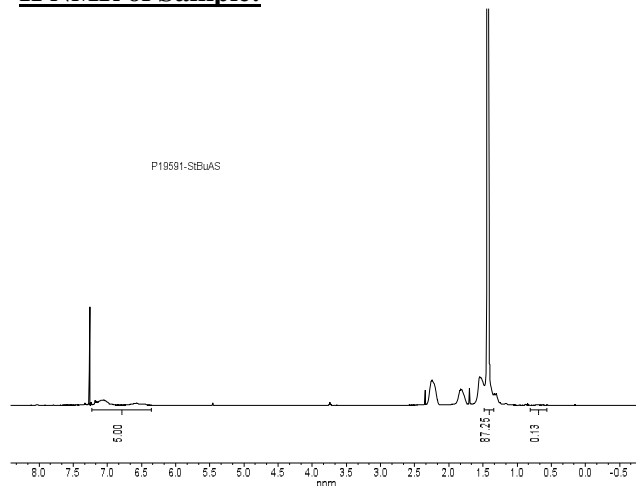
Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Solubility:

Polymer is soluble in THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water and hexanes (depending on the compositions).

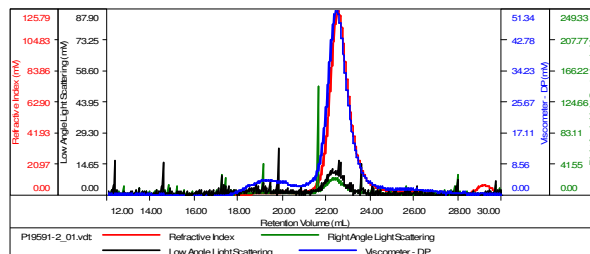
¹H NMR of Sample:



SEC of Sample:

Sample ID-P19591-2 Before linking reaction

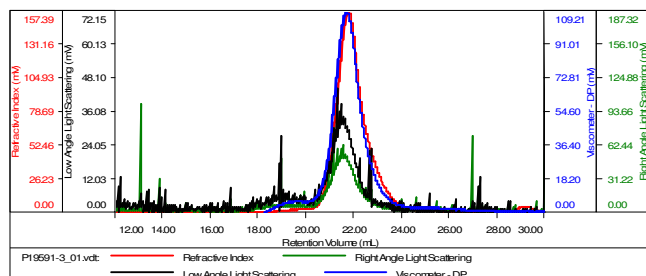
Concentration (mg/mL)	0.5780
Sample dn/dc (mL/g)	0.0000
Method File	PS30K-Nov-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19591-2.01.vcl	21,451	25,466	21,090	1.189	3.0091

Sample ID:P19591-3 after linking reaction

Concentration (mg/mL)	0.8894
Sample dn/dc (mL/g)	0.0900
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)
P19591-3_01.vcl	43,532	53,389	45,314	1.227	4.7445

Reference:

1. S.K. Varshney, P. Kesani, N. Agarwal, J. Xin. Zhang, and M. Rafailovich “Synthesis of ABA type thermoplastic elastomers based on Polyacrylates”, *Macromolecules*, 1999, 32, 235.