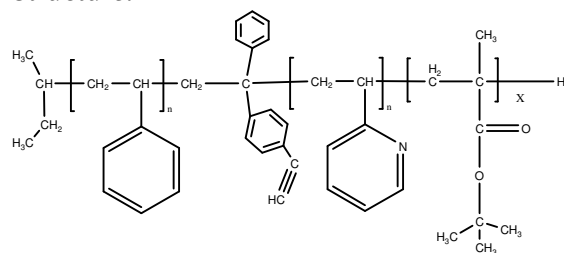


Sample Name: Poly(styrene-b-2-vinyl pyridine-tert butylmethacrylate)

bearing ethynyl (acetylenic triple bond) phenyl – phenyl ethylene at the junction of S-2VP block

Sample #: P19069-S(acetylene)2VPtBuMA

Structure:

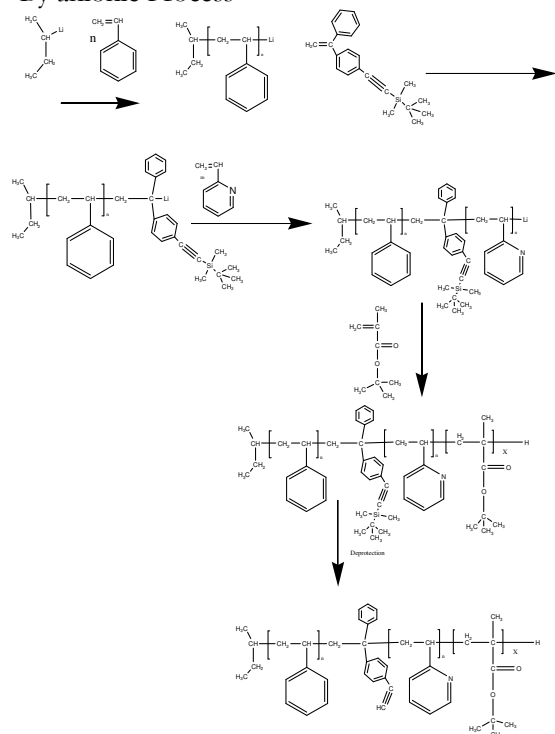


Composition: tBuMA: nBuMA 1:1ratio

Mn x 10 ³ S-b-2VP-b-tBuMA	PDI
134.0-b-98.0-b-21.0 By HNMR	1.08
Tg: °C S:2VP:tBuMA	101:119:124

Synthesis Procedure:

By anionic Process



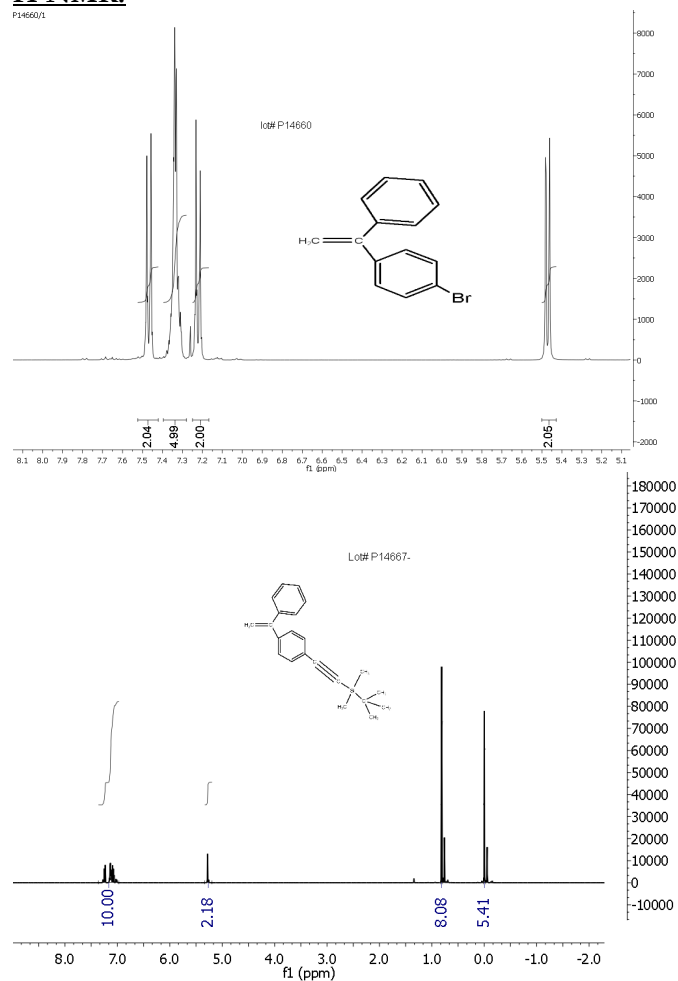
Characterization:

By SEC and HNMR spectroscopy.

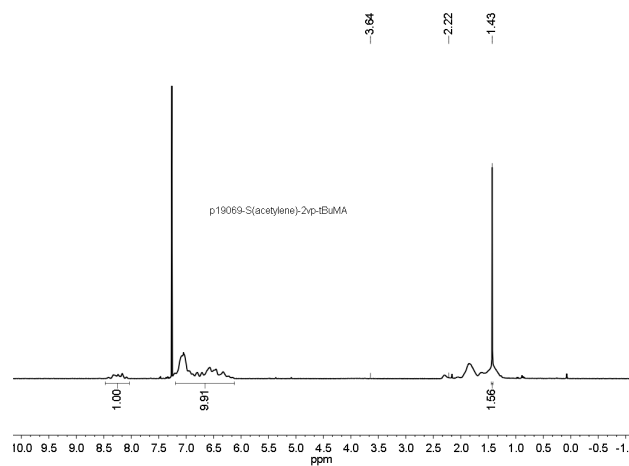
DPE-4Br:

The product was characterized by NMR and FTIR.

¹H NMR:

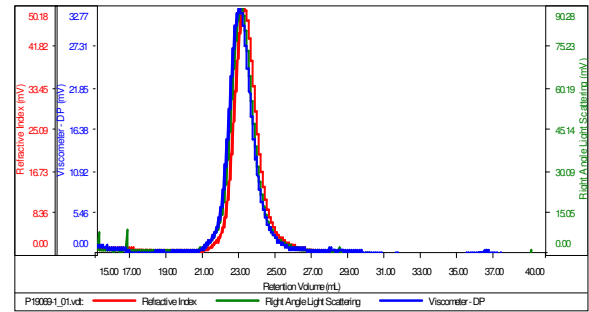


¹H-NMR Spectrum of the polymer



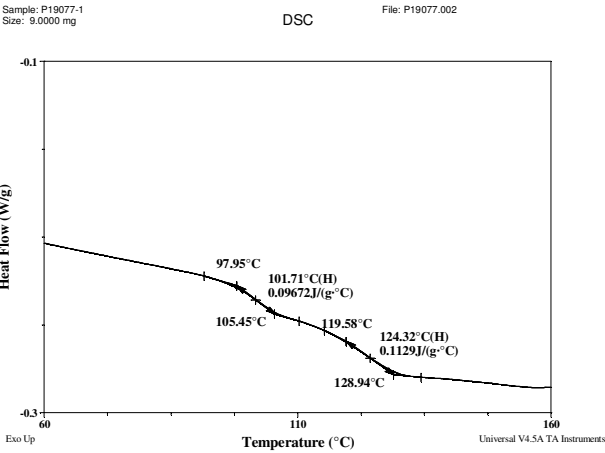
SEC for the polymer at different stages:
Sample ID: P19069-S

Concentration (mg/mL)	1.1265
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Jan22-2015-0000.vom
Column Set	3x PL 1113-6300
Solvent	THF



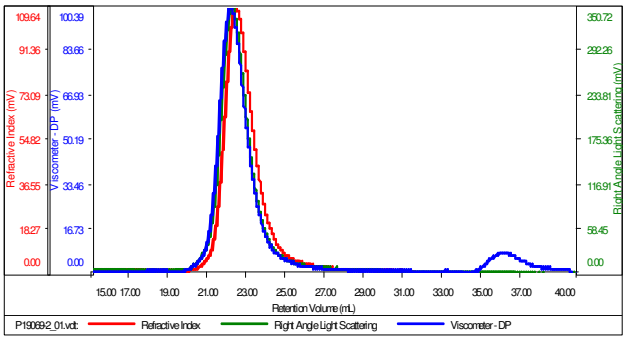
Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19069_01.vct	134,182	141,844	133,435	1.057	0.9147

DSC:



Sample ID: P19069-S-2VP

Concentration (mg/mL)	3.1720
Sample dn/dc (mL/g)	0.1700
Method File	PS80K-Jan22-2015-0000.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)
P19069_2_01.vct	254,094	272,686	271,048	1.073	1.1060