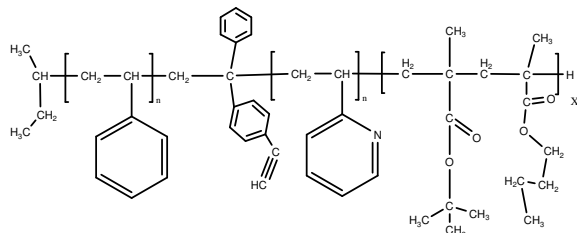


Sample Name: Poly(styrene-b-2-vinyl pyridine-tert butylmethacrylate-Butyl methacrylate ran) bearing ethynyl (acetylenic triple bond) phenyl – phenyl ethylene at the junction of S-2VP block

Sample #:

P19072-S(acetylene) 2VPtBuMANBuMAran

Structure:

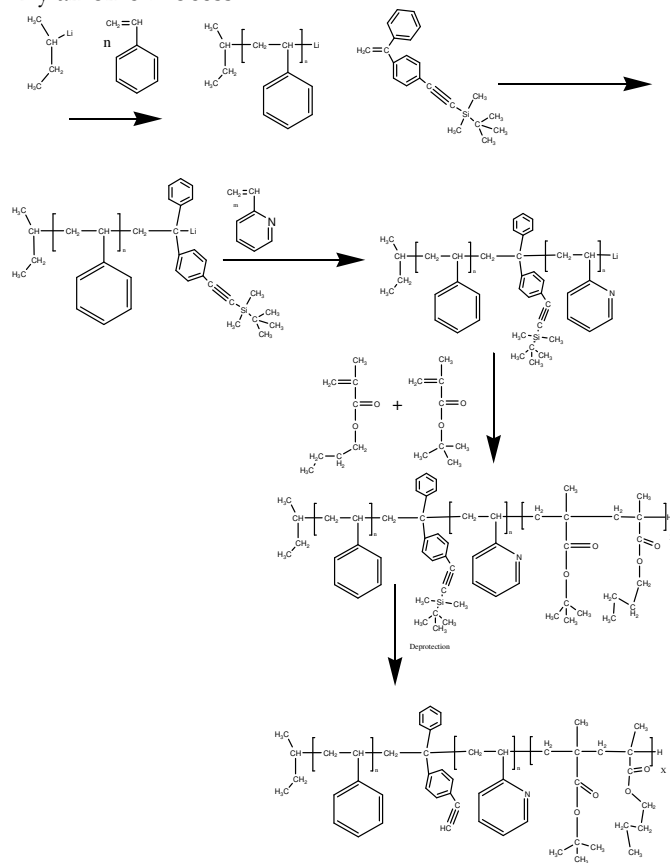


Composition: tBuMA: nBuMA 1:1ratio

Mn x 10 ³	PDI
S-b-2VP-b-tBuMANBuMAran	
54.0-b-51.0-b-240.0	1.23
By HNMR	
Tg oC	102: 109: 67
S: 2VP: tBuMANBuMAran	

Synthesis Procedure:

By anionic Process



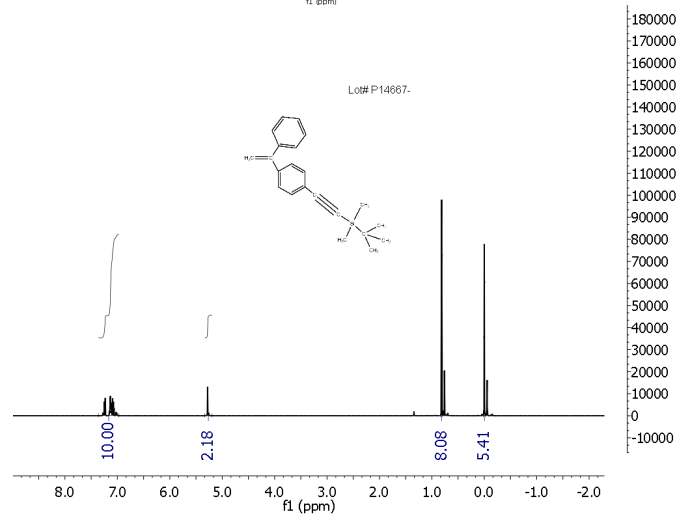
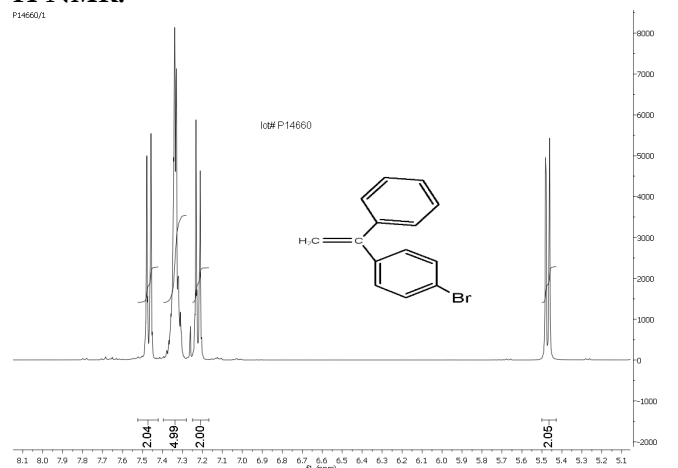
Characterization:

By SEC and HNMR spectroscopy.

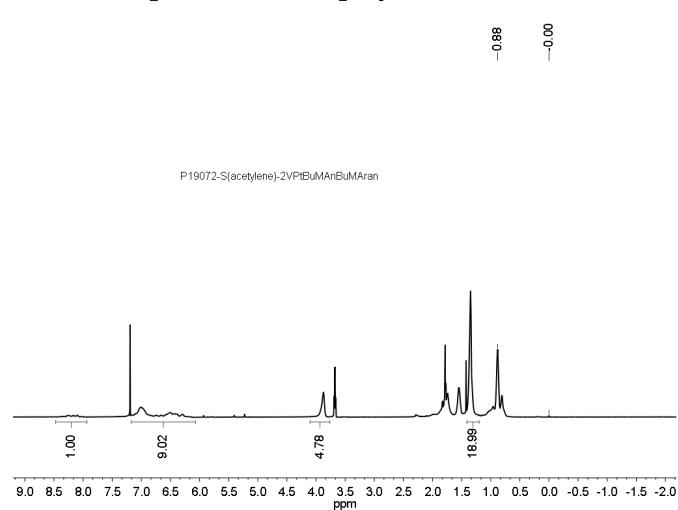
DPE-4Br:

The product was characterized by NMR and FTIR.

H NMR:



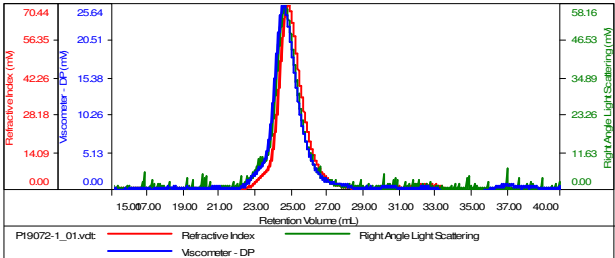
¹H-NMR Spectrum of the polymer



SEC for the polymer at different stages:

Sample ID: P19072-S

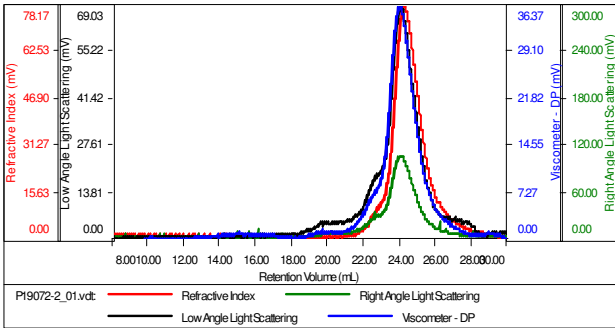
Concentration (mg/mL)	1.9999
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Jan22-2015-0000.vom
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19072-1_01.vdt	54,308	58,818	53,861	1.083	0.5266

Sample ID: P19072-S2VP

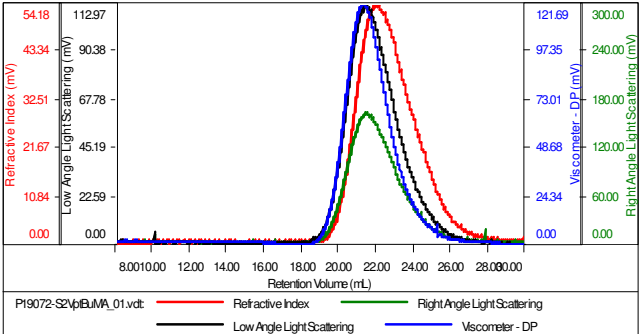
Concentration (mg/mL)	2.2770
Sample dn/dc (mL/g)	0.1790
Method File	PS80K-Jan22-2015-0000.vom
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19072-2_01.vdt	104,966	119,835	107,388	1.141	0.6594

Sample ID: P19072-S2VPtBuMAAnBuMAran

Concentration (mg/mL)	5.3250
Sample dn/dc (mL/g)	0.0980
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)
P19072-S2VPtBuMA_01.vdt	344,963	427,002	456,084	1.238	1.3079

DSC:

Sample: P19072
Size: 6.0000 mg

DSC

File: P19072-S-Acetylene-2VP-tBuMAAnBuMA.001

