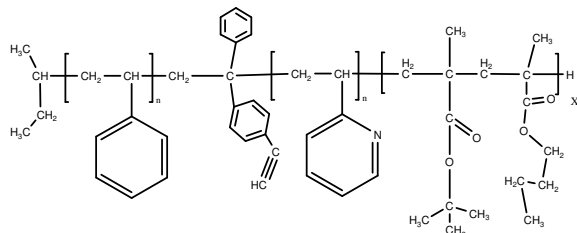


Sample Name: Poly(styrene-b-2-vinyl pyridine-tert butylmethacrylate-Butyl methacrylate ran) bearing ethynyl (acetylenic triple bond) phenyl – phenyl ethylene at the junction of S-2VP block

Sample #:

P19074-S(acetylene) 2VPtBuMAnBuMAran

Structure:

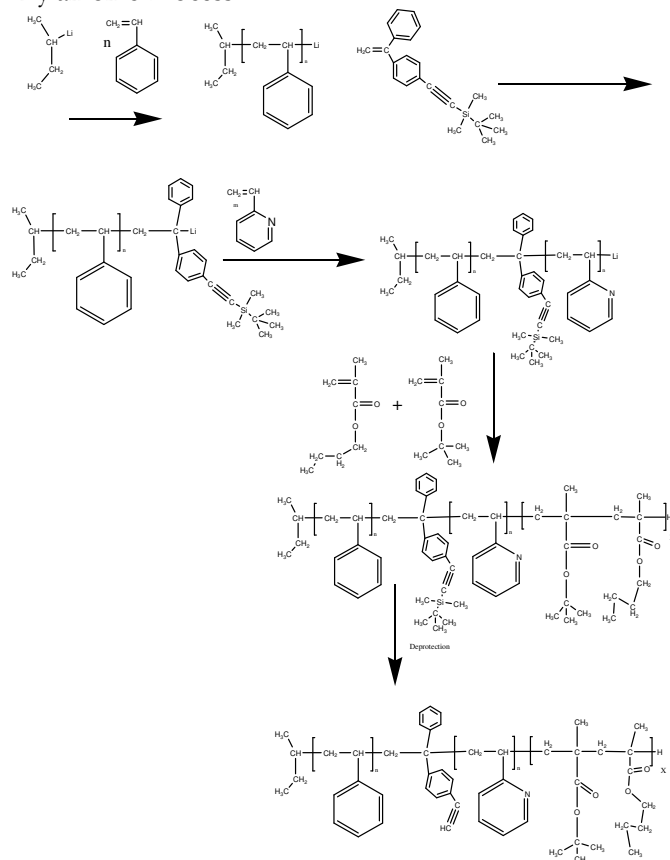


Composition: tBuMA: nBuMA 1:1ratio

Mn x 10 ³	PDI
S-b-2VP-b-tBuMAnBuMAran	
90.5-b-50.0-b-300.0	1.2
By HNMR	
Tg oC	102: 109: 67
S: 2VP: tBuMAAnBuMAran	

Synthesis Procedure:

By anionic Process



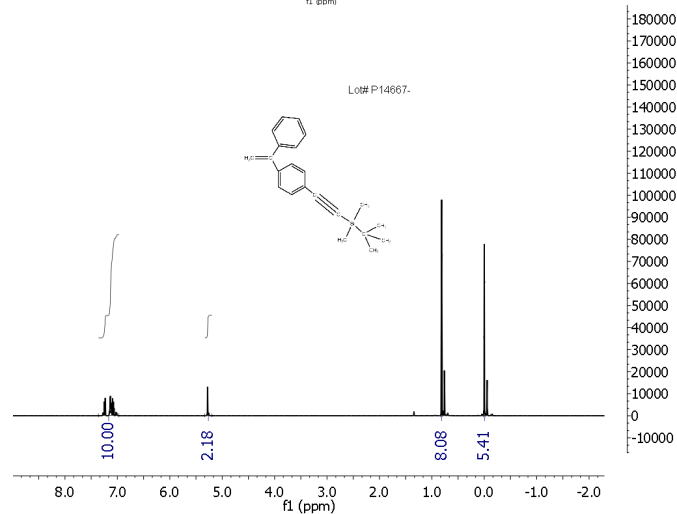
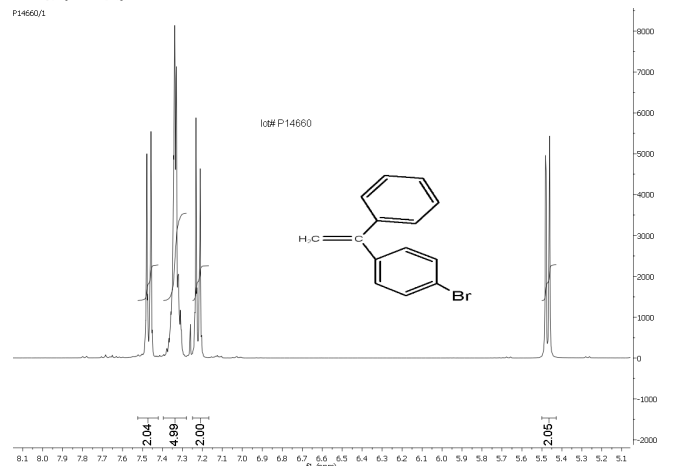
Characterization:

By SEC and HNMR spectroscopy.

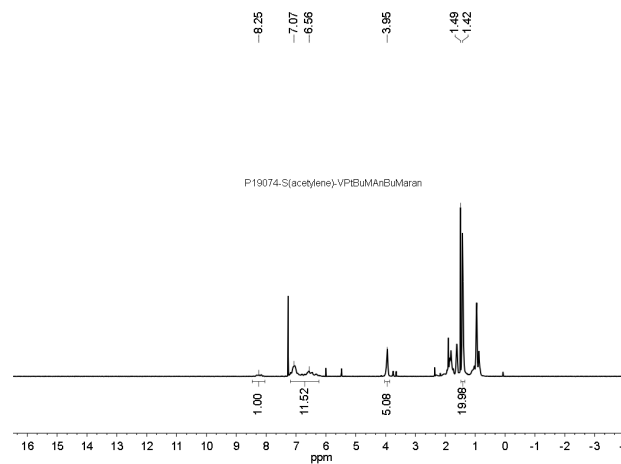
DPE-4Br:

The product was characterized by NMR and FTIR.

H NMR:



¹H-NMR Spectrum of the polymer

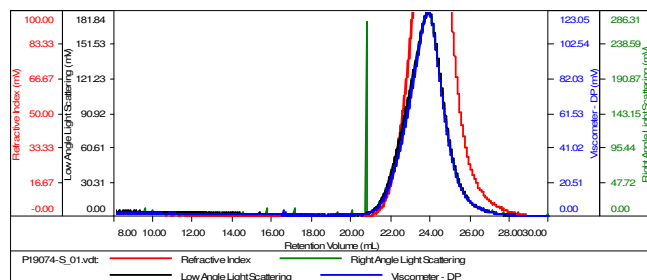


SEC for the polymer at different stages:

v.A-1

Sample ID: P19074-S

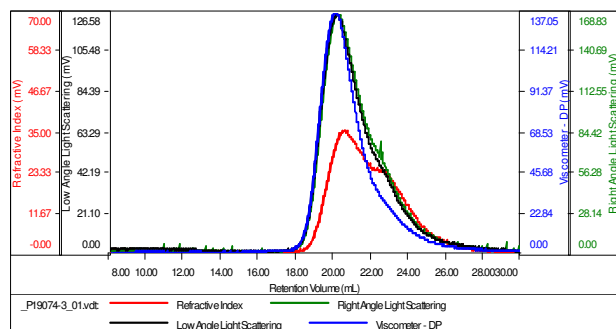
Concentration (mg/mL)	6.9252
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Jan22-2015-0001.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19074-S_01.vdt	90,516	102,399	88,166	1.131	0.7431

Sample ID: P19074-S2VPtBuMArBuMAr

Concentration (mg/mL)	3.0796
Sample dn/dc (mL/g)	0.1200
Method File	PS80K-Jan22-2015-0001.vcm
Column Set	3x PL 1113-6300
Solvent	THF

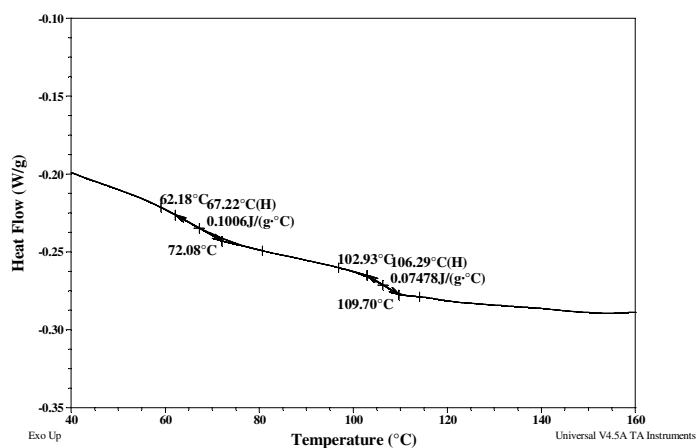


Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
_P19074-3_01.vdt	440,254	531,384	591,380	1.207	2.3483

Sample: P19072
Size: 6.0000 mg

DSC

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



DSC: