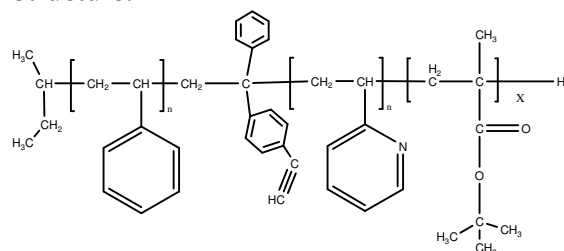


Sample Name: Poly(styrene-b-2-vinyl pyridine-tert butylmethacrylate)

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

Sample #: P19076-S(acetylene)2VPtBuMA

Structure:

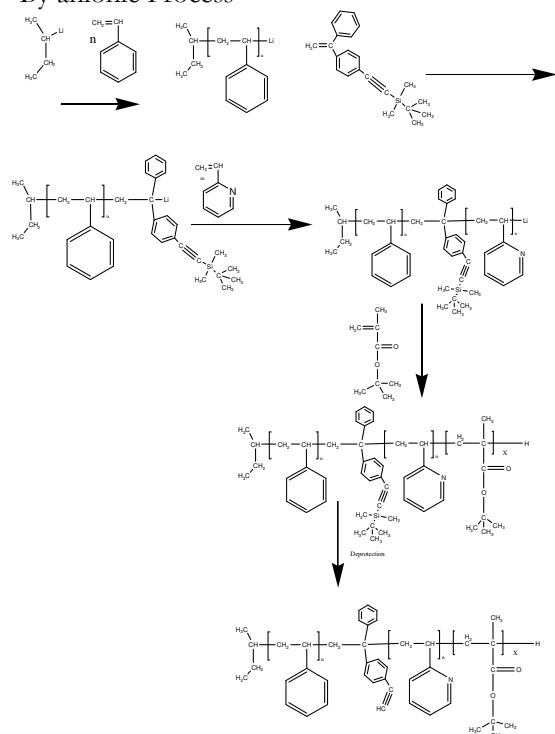


Composition: tBuMA: nBuMA 1:1ratio

Mn x 10 ³ S-b-2VP-b-tBuMA	PDI
73.5-B-55.0-b-233.0 By HNMR	1.12
Tg: °C S:2VP:tBuMA	101:119:124

Synthesis Procedure:

By anionic Process



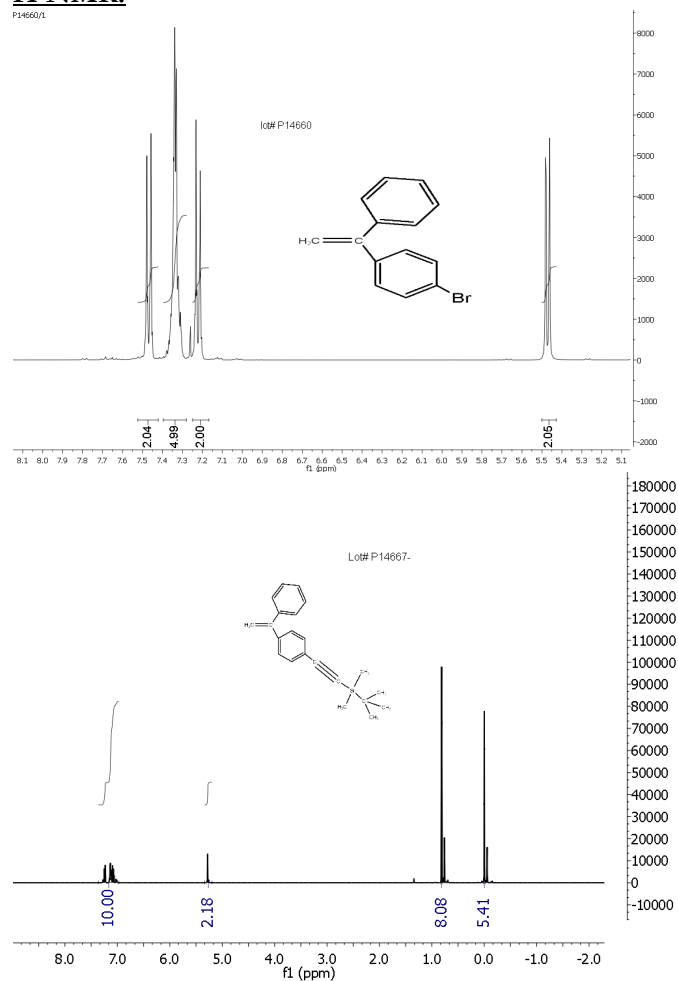
Characterization:

By SEC and HNMR spectroscopy.

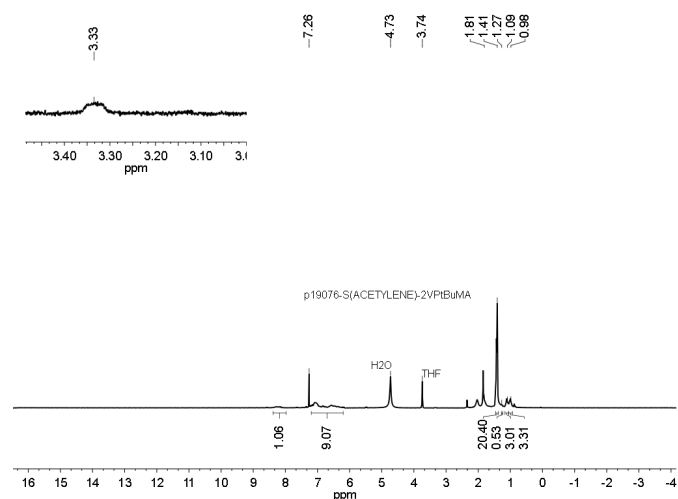
DPE-4Br:

The product was characterized by NMR and FTIR.

H NMR:



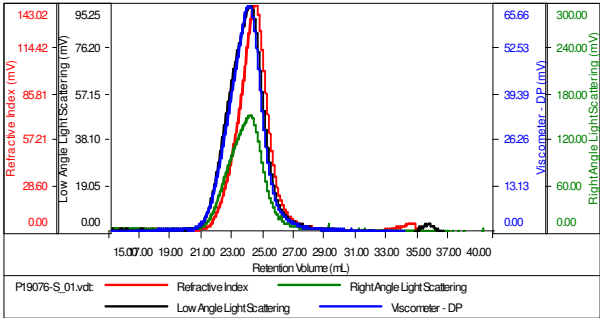
¹H-NMR Spectrum of the polymer



SEC for the polymer at different stages:

Sample ID: P19076-S

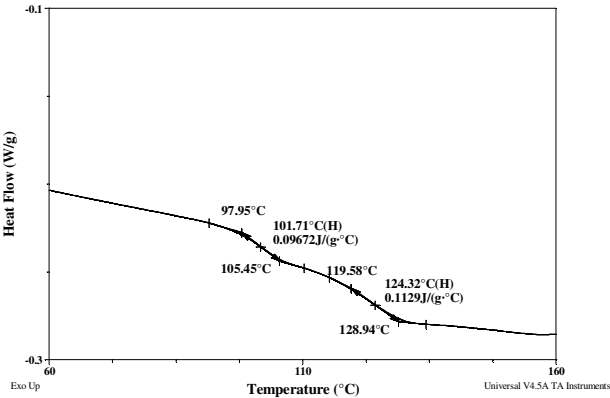
Concentration (mg/mL)	3.8889
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Jan22-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19076-S_01.vdt	73,406	78,011	74,855	1.063	0.5908

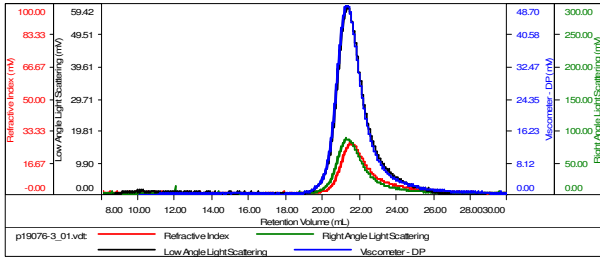
DSC:

Sample: P19077-1
Size: 9.0000 mg
DSC
File: P19077.002



Sample ID: P19076-S2VPIBuMA

Concentration (mg/mL)	1.3560
Sample dn/dc (mL/g)	0.1100
Method File	PS80K-Jan22-2015-0000.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)
p19076-3_01.vdt	361,987	404,349	439,871	1.117	1.3151