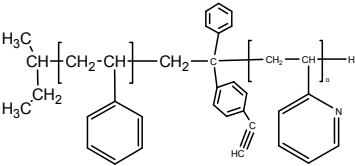


Sample Name: Poly (Styrenee-b-2-vinyl pyridine) bearing ethynyl (acetylenic triple bond) phenyl – phenyl ethylene at the junction of S-2VP block

Sample #: P40224-S (acetylene) 2VP

Structure:

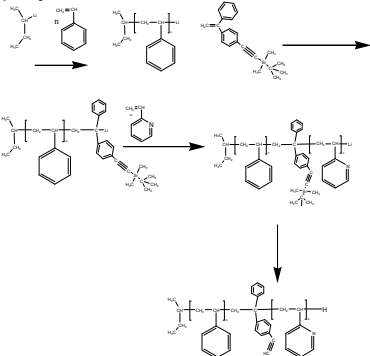


Composition:

Mn x 10 ³	PDI
S-b-2VP	
64.0-b-11.0	1.04

Synthesis Procedure:

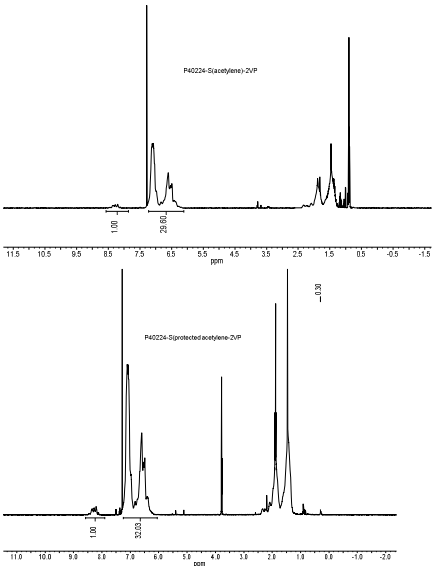
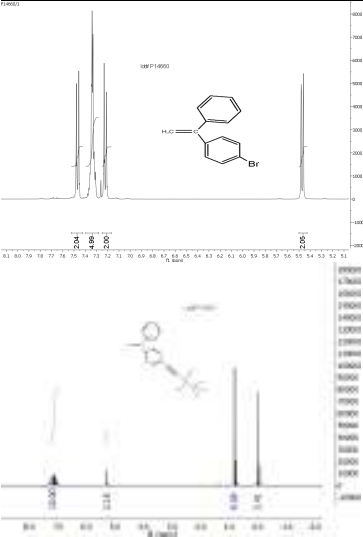
The polymer was synthesized by anionic polymerization



Characterization:

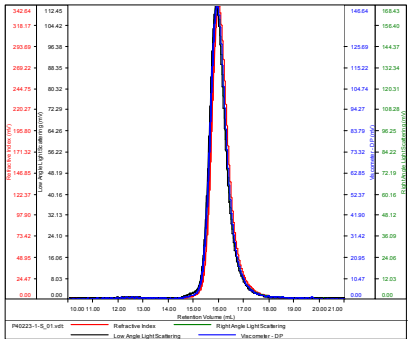
The product was characterized by size exclusion chromatography (SEC) and 1H NMR.

DPE-4Br: The product was characterized by NMR



SEC for the polymer at different stages:

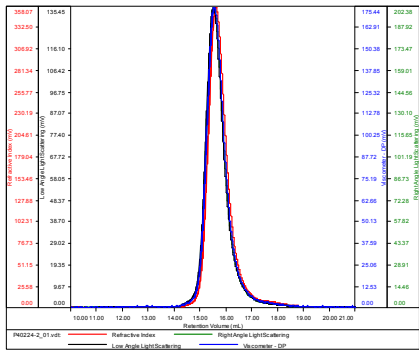
Conc (mg/mL)	10.2079
divid (mL/g)	0.1650
Method	PS80kNov162016-0000 vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40223-1-S_01.vdt	64.015	66.236	65.074	1.035	0.1300

P40224-2-S2VP

Conc (mg/mL)	11.7521
divid (mL/g)	0.1600
Method	PS80kNov162016-0000 vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40224-2_01.vdt	75.543	78.354	77.084	1.037	0.1439