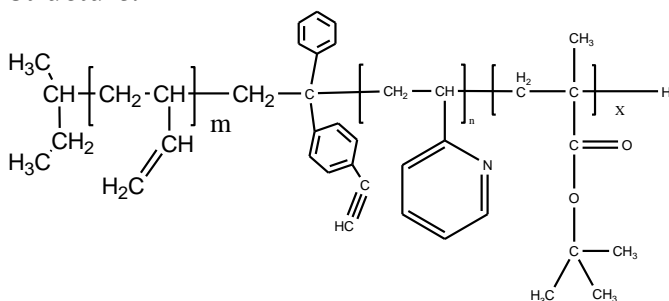


**Sample Name:**

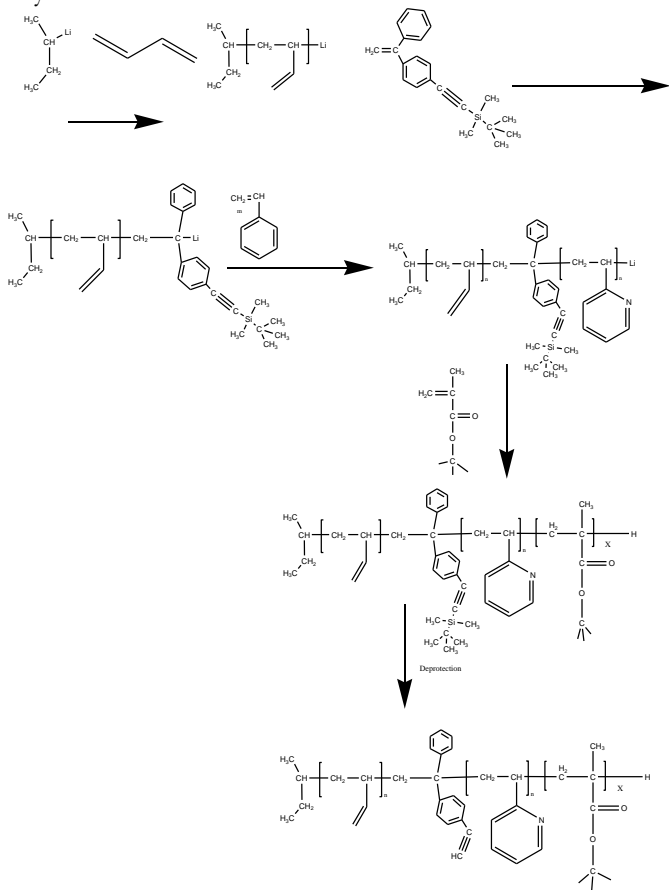
Poly(Butadiene-b-2-vinyl pyridine-tertbutyl methacrylate) bearing ethynyl (acetylenic triple bond) phenyl-phenyl ethylene at the junction of Bd-2VP block

**Sample #: P18701-Bd(acetylene) 2VPtBuMA****Structure:****Composition:**

Mn x 10 <sup>3</sup>	PDI
Bd-b-2VP-b-tBuMA	
16.0-b-27.0-b-106.0	1.12
The final Block contain traces amount of diblock copolymer Difficult to remove	<5%

**Synthesis Procedure:**

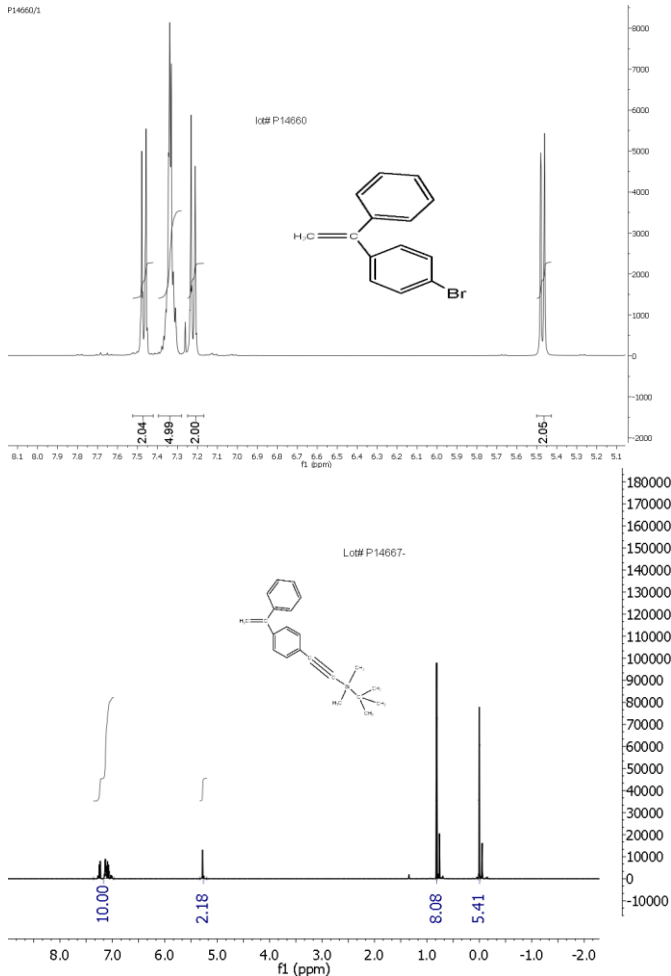
By anionic Process

**Characterization:**

By SEC and HNMR spectroscopy.

DPE-4Br: The product was characterized by NMR and FTIR.

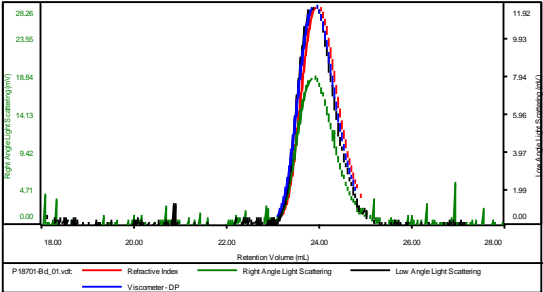
P14660/1



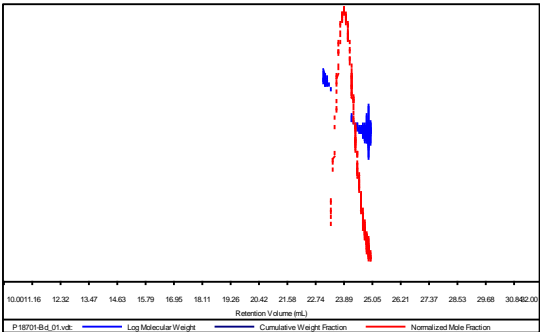
SEC for the polymer at different stages:

Sample ID: P18701-Bd

Concentration (mg/mL)	8.6655
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-Apr15-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

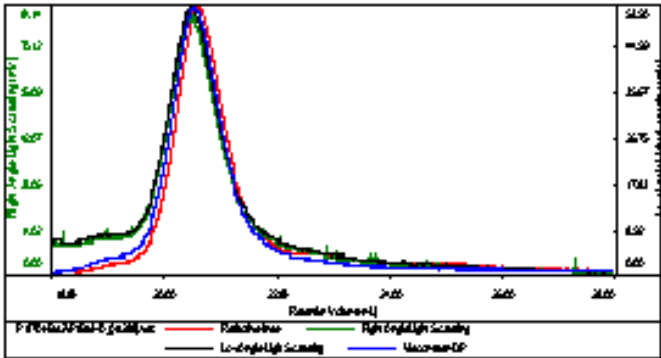


Sample	Mn	Mw	Mp	Mw/Mn	IV
P18701-Bd_01.vdt	15,943	16,599	16,561	1.041	0.1584



Sample ID: P18701-Bd (acetylene)-2VPiBuMA

Concentration (mg/mL)	4.2189
Sample dn/dc (mL/g)	0.1480
Method File	PS80K-Apr15-2014-0000.vcm
Column Set	3x PL1113-6300
Solvent	THF



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18701-Bd2/PiBuMA_01_289.udl	147,562	154,482	137,340	1.112	0.4935

