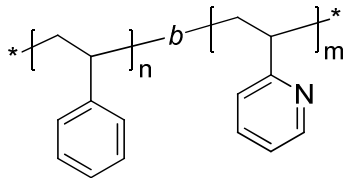


Sample Name: Poly(styrene)-*block*-poly(2-vinyl pyridine)

Sample #: P19934-S2VP

Structure:



Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
156.1- <i>b</i> -19.6	1.1

Synthesis Procedure:

Poly(styrene)-*b*-poly(2-vinyl pyridine) was prepared by living anionic polymerization.

Characterization:

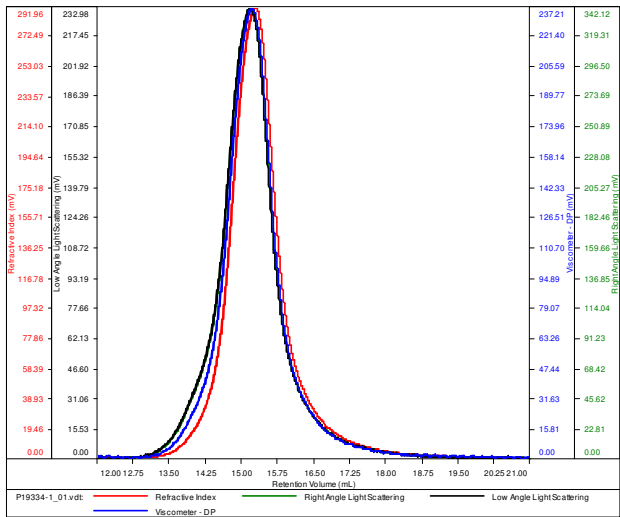
The average molecular weight of the first block (polystyrene) and polydispersity index of the diblock copolymer were determined by size exclusion chromatography (SEC).

The molecular weight of the second block (P2VP) was calculated from NMR by comparing the integration of aryl proton of P2VP ($-\text{CH}=\text{N}-$, $\delta=8.2\text{--}8.5$ ppm) with aryl protons of PS ($\delta=6.3\text{--}7.6$ ppm).

SEC elugram of PS [first block] in DMF:

P19934-1

Conc (mg/mL)	8.0329
dn/dc (mL/g)	0.1650
Method	PS90k-May-25-2016-0000.vcm
Solvent	DMF w/0.023M LiBr
Column	PSS



Sample	M_n	M_w	M_p	M_w/M_n	IV
P19934-1_01.vdt	156,109	165,732	152,592	1.062	0.4050

^1H NMR spectrum of PS-P2VP [diblock copolymer]:

