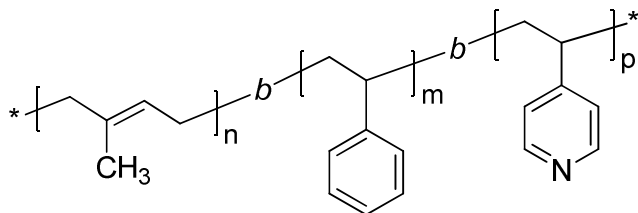


Sample Name: Poly(1,4-isoprene)-*block*-poly(styrene)-*block*-poly(4-vinyl pyridine)

Sample #: P19772-IpS4VP

Structure:



Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
[PIp-PS-P4VP]	
16-b-47-b-12	1.06

Synthesis procedure:

The PIp-PS-P4VP triblock copolymer was synthesized by living anionic polymerization technique. Monomers were added sequentially; aliquots of the polymer reaction mass were taken for characterization prior to addition of the other monomers.

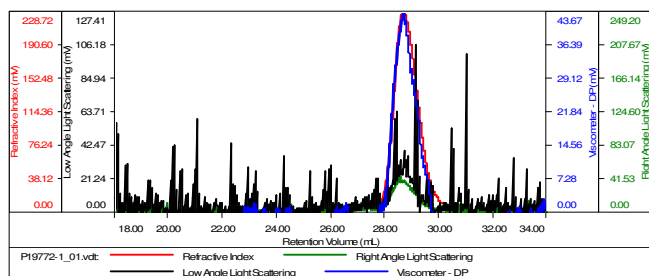
Characterization:

The average molecular weight of the 1st and 2nd blocks and polydispersity index (M_w/M_n) were determined by size exclusion chromatography (SEC). The average molecular weight of the 3rd block was calculated from ¹H NMR spectroscopy data by comparing the integration of -CH- proton from polyisoprene ($\delta=5.2-4.7$ ppm) and aryl proton of P2VP (-CH=N-, $\delta=8.2-8.5$ ppm).

SEC elugram of the 1st block (polyisoprene):

Sample IDP19772-1 IP

Concentration (mg/mL)	1.1771
Sample dn/dc (mL/g)	0.1250
Method File	PS80K-March2016-0001.vcm
Column Set	3x PL 1113-6300
Solvent	THF



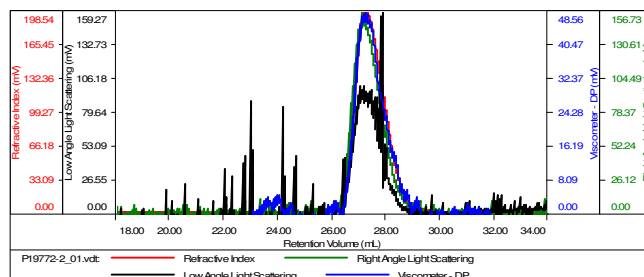
Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Rh (nm)	Ret Vol (mL)
P19772-1_01.vdt	16,224	16,940	1.044	1.4437	9.36	28.677

SEC elugram of the diblock copolymer:

Sample IDP19772-2

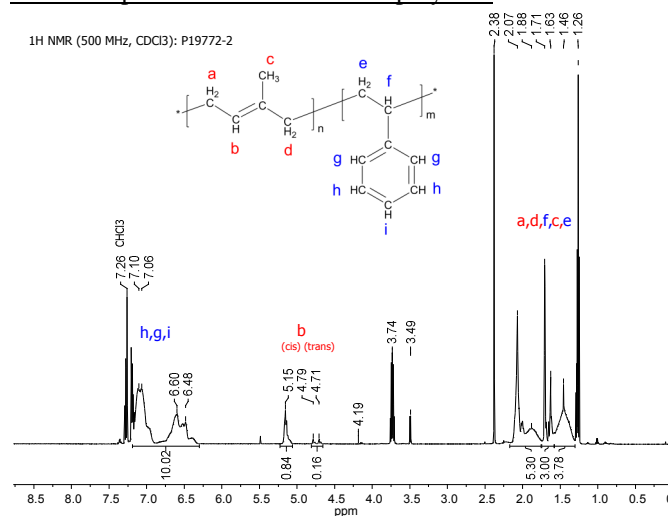
IP-S

Concentration (mg/mL)	1.0755
Sample dn/dc (mL/g)	0.1450
Method File	PS80K-March2016-0001.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Rh (nm)	Ret Vol (mL)
P19772-2_01.vdt	63,180	66,933	1.059	2.3379	17.40	27.240

¹H NMR spectrum of the diblock copolymer:



¹H NMR spectrum of the triblock copolymer:

