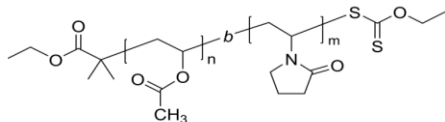


Sample Name: Poly(vinyl acetate)-b-poly(N-vinyl pyrrolidone)

Sample #: P42374-VAcNVP

Structure:



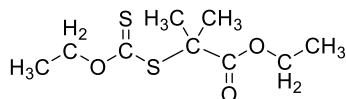
Composition:

$M_n \times 10^3$ VAc-b-NVP	PDI
6.5-b-35.0	1.85

Synthesis Procedure:

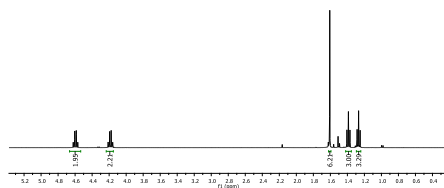
The polymer was synthesized by RAFT polymerization process using following RAFT reagent:

Structure:



Chemical Formula: $C_9H_{16}O_3S_2$
Exact Mass: 236.05

1H NMR spectrum of RAFT (400 MHz, $CDCl_3$):

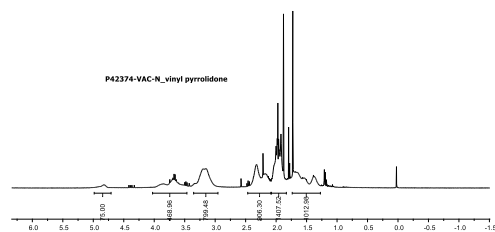


Characterization:

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

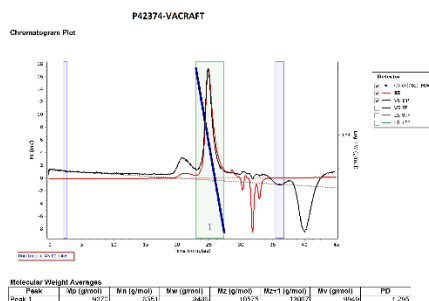
Solubility: The polymer is soluble in THF, DMF Acetone and $CHCl_3$. It precipitates from Hexane.

HNMR spectrum of PVAc-b-NVP:

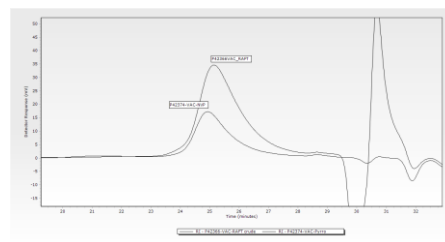


SEC of PVAc-RAFT Macroinitiator:

Agilent GPC/SEC Software

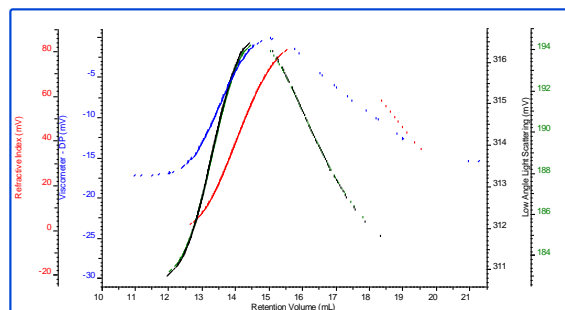


SEC of the block copolymer: run in THF



SEC of the block copolymer: run in DMF at 35 °C:
P42374-VAC-NVP

dn/dc	0.0770
Flow Rate	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA60K-Jan3-2019-0011.vcm



Sample	Mn	Mw	Mp	Mw/Mn
P42374-VAC-NVP_1_2	41,436	77,423	73,975	1.868