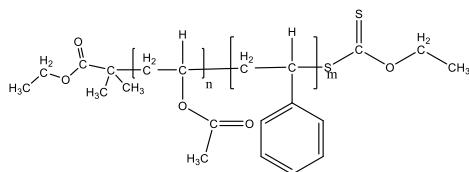


Sample Name: Poly (vinyl acetate–b–styrene)

Sample #: P42340AF-VAcS

Structure:

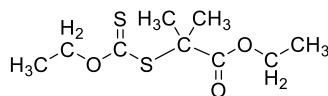


Composition:

$M_n \times 10^3$ VAc-b-S	PDI
10.0-b-3.0	1.7

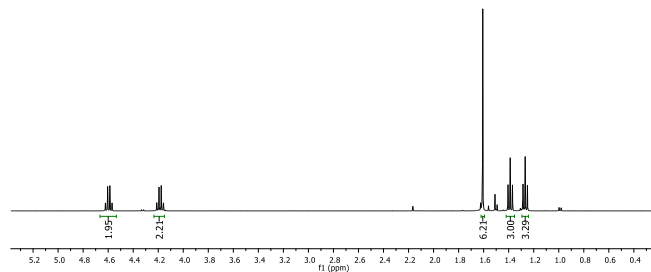
Synthesis Procedure:

The product was obtained by successive RAFT polymerization of vinyl acetate and styrene using AIBN as a radical initiator and the following chain transfer agent:



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

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



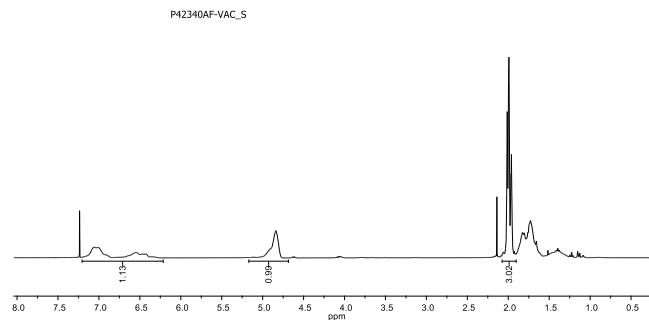
Characterization:

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

Solubility:

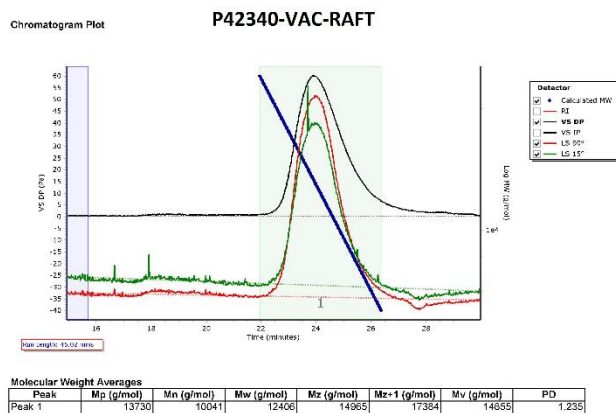
The polymer is soluble in THF, Acetone and $CHCl_3$. It precipitates from MeOH and Hexane.

1H NMR spectrum of PVAc–b–PS Sample:



SEC elugram of VAC-RAFT macroinitiator:

Agilent GPC/SEC Software



SEC elugram of the block copolymer:

Agilent GPC/SEC Software

