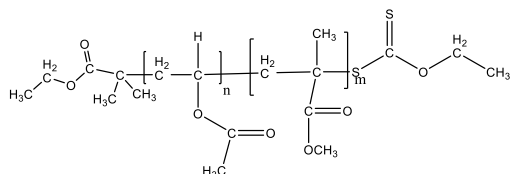


Sample Name: Poly(vinyl acetate-b-methyl methacrylate)

Sample #: P42345C-VAcMMA

Structure:



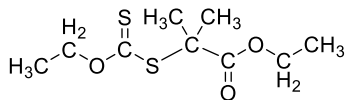
Composition:

$M_n \times 10^3$ VAc-b-MMA	PDI
10.5-b-97.0	1.5

Synthesis Procedure:

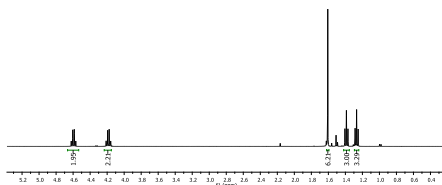
The polymer was synthesized by RAFT polymerization process using following RAFT reagent:

Structure:



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

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



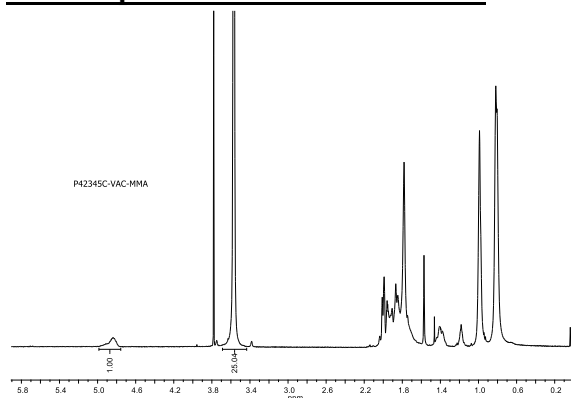
Characterization:

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

Solubility:

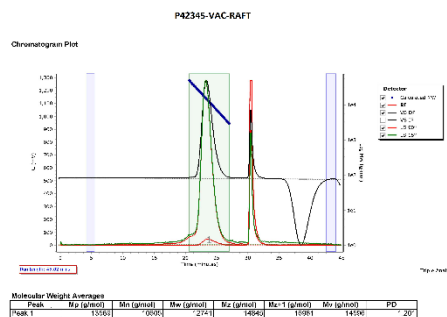
The polymer is soluble in THF, Acetone and $CHCl_3$. It precipitates from Hexane.

HNMR spectrum of PVAc-b-PMMA:



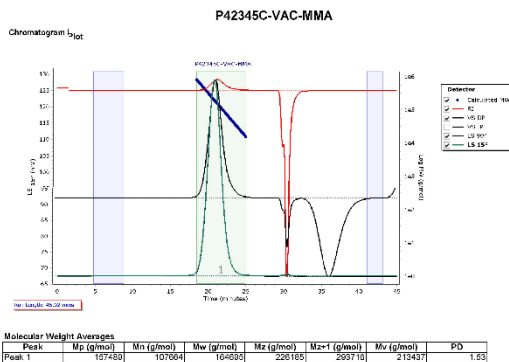
SEC of PVAc-RAFT Macroinitiator:

Agilent GPC/SEC Software



SEC of the block copolymer:

Agilent GPC/SEC Software



FTIR spectrum of the Polymer:

