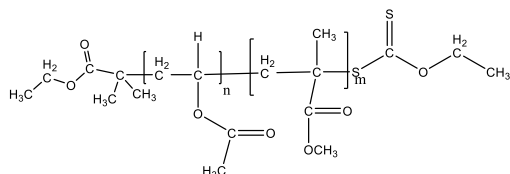


**Sample Name:** Poly (vinyl acetate–b–methyl methacrylate)

**Sample #:** P42345-VAcMMA

**Structure:**



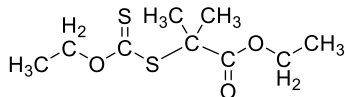
**Composition:**

$M_n \times 10^3$ VAc–b–MMA	PDI
10.5-b-224.0	1.48

**Synthesis Procedure:**

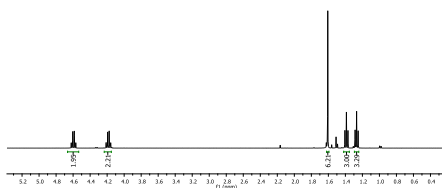
The polymer was synthesized by RAFT polymerization process using following RAFT reagent:

**Structure:**



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

**$^1H$  NMR OF RAFT (400 MHz,  $CDCl_3$ ):**



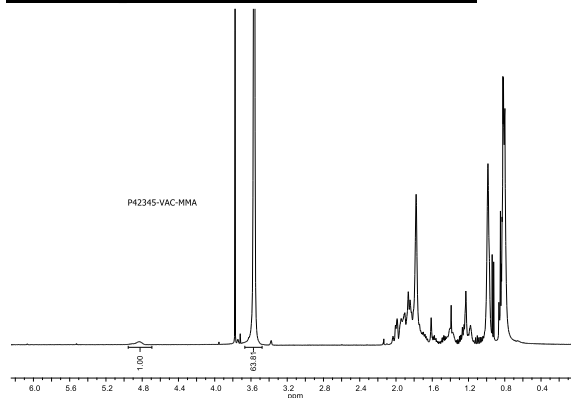
**Characterization:**

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

**Solubility:**

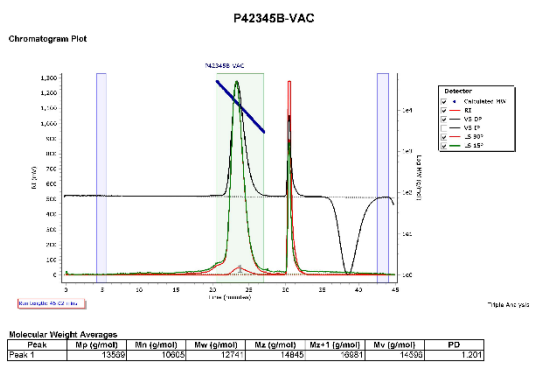
The polymer is soluble in THF, Acetone and  $CHCl_3$ . It precipitates from Hexane.

**HNMR spectrum of PVAc–b–PMMA**



**SEC elugram of PVAc-RAFT Macroinitiator:**

Agilent GPC/SEC Software



**SEC of the block copolymer:**

Agilent GPC/SEC Software

