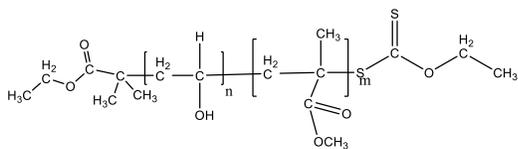


Sample Name: Poly (vinyl alcohol–b–methyl methacrylate)

Sample #: P42345BH-VAMMA

Structure:



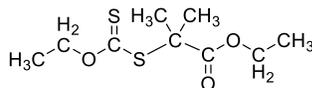
Composition:

$M_n \times 10^3$ VA-b-MMA	PDI
5.5-b-3.5	2.9
Solubility: Methanol Cloudy; DMSO clear solution	

Synthesis Procedure:

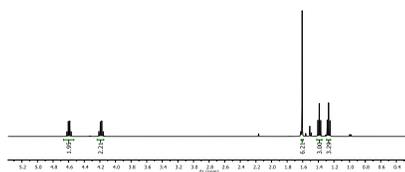
The polymer was synthesized by RAFT polymerization process using following RAFT reagent:

Structure:



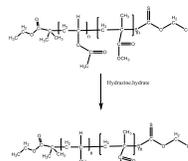
Chemical Formula: $C_9H_{16}O_3S_2$
Exact Mass: 236.05

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

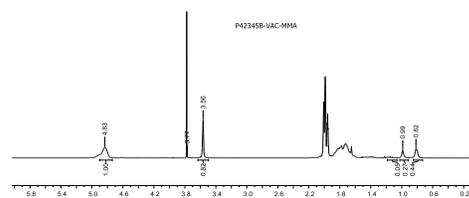


Characterization:

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

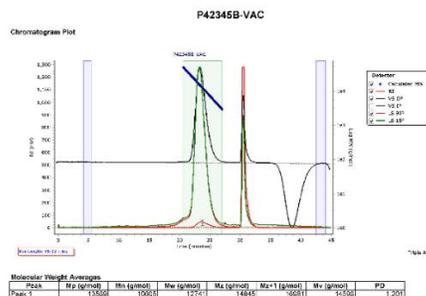


HNR of PVAC-b-PMMA



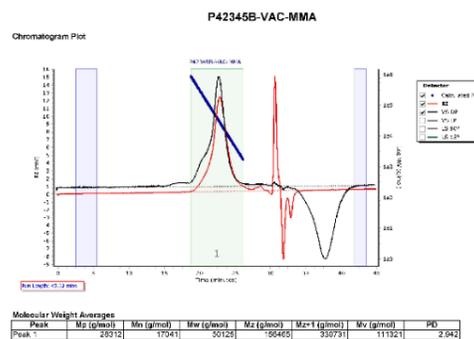
SEC of PVAC-RAFT Macroinitiator:

Agilent GPC/SEC Software



SEC of the block copolymer:

Agilent GPC/SEC Software



FTIR spectrum of the Polymer:

