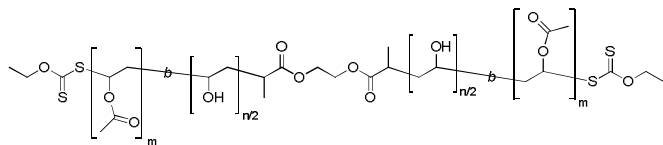


Sample:  
Poly(vinyl acetate-b-vinyl alcohol-b-vinyl acetate)

Sample # P20251A-VAcVAVAc

Structure:



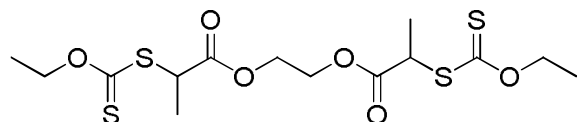
Composition:

$M_n \times 10^3$ VAc-b-VA-b-VAc (g/mol)	$M_w/M_n$ (PDI)
2.8-2.2-2.8	1.19

Synthesis:

Triblock copolymer was prepared by sequential RAFT polymerization of vinyl chloroacetate and vinyl acetate followed by the selective hydrolysis of chloroacetate moieties.

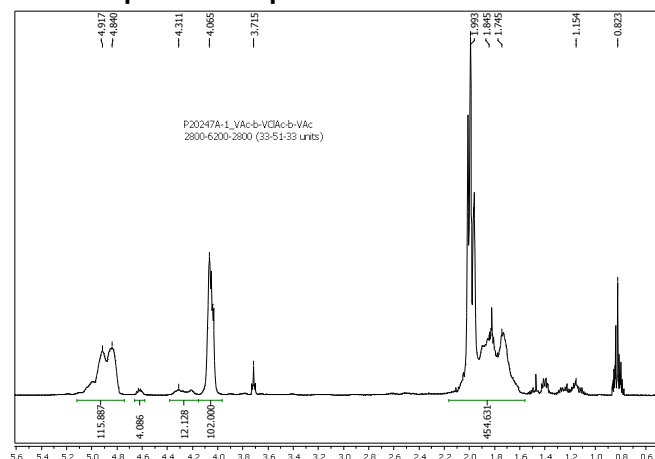
Bifunctional RAFT chain-transfer agent used:



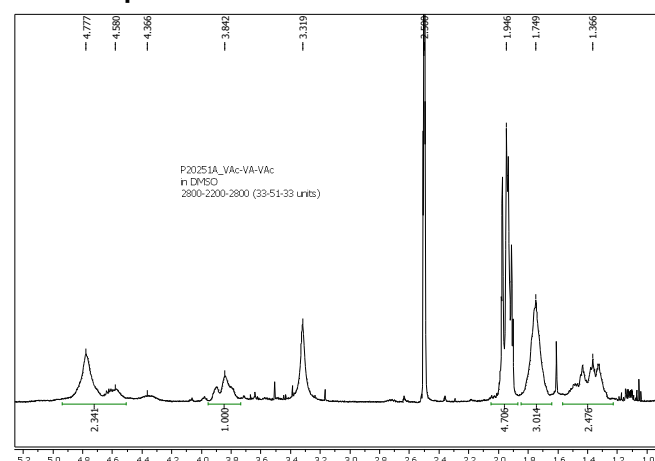
Characterization:

The molecular weight and polydispersity (PDI) of the product was determined by size exclusion chromatography (SEC) using light-scattering detector to determine molecular weights, and  $dn/dc$  value of 0.033 was used. Composition of triblock copolymer was determined by NMR.

$^1H$  NMR spectrum of precursor VAc-VClAc-VAc:



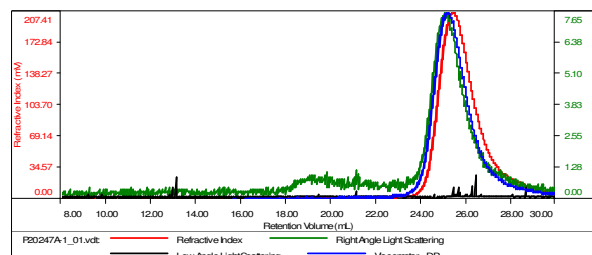
$^1H$  NMR spectrum of VAc-VA-VAc:



SEC elugram of precursor triblock copolymer:

Sample ID: P20247A-1\_VAc-VClAc-VAc

Concentration (mg/mL)	11.5447
Sample dn/dc (mL/g)	0.0330
Method File	PS30K-June30-2015.0000.vcm
Column Set	3x PL 1113.6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P20247A-1_01.vct	11,746	13,942	12,081	1.187	0.0000