Sample Name:

Poly(vinyl acetate-b-styrene)

Sample #: P20087-2-VAcS

Structure:

Composition:

$\begin{array}{c} M_n \times 10^3 \\ VAc-b-St \end{array}$	PDI
0.4–5.0	1.5
VAc:St = 1:10 (NMR)	

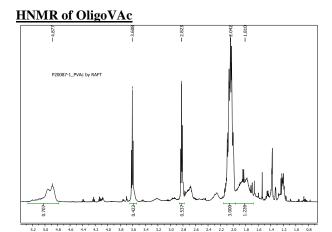
Synthesis Procedure:

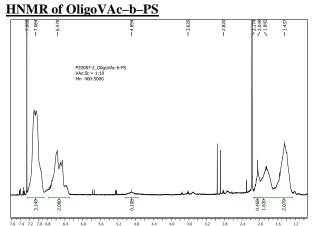
The product was obtained by successive RAFT polymerization of vinyl acetate and styrene using AIBN as a radical initiator and the following chain transfer agent:

Characterization:

Oligo(vinyl acetate) was characterized by size–exclusion chromatography (SEC) to estimate M_n (PS standards) and polydispersity (PDI). NMR was used to confirm the structure. M_n of PVAc–b–PS was estimated from NMR using SEC M_n of OligoVAc as a reference, and PDI was estimated from SEC.

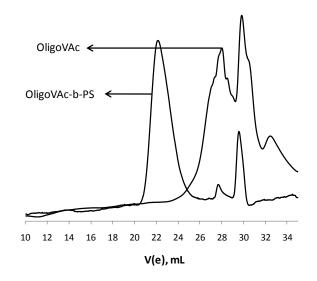
The polymer is soluble in THF, Acetone, CHCl₃ and precipitates from MeOH and Hexane.





SEC of the block copolymer:

P20087-2-VAc-b-St



 $\begin{aligned} \textbf{OligoVAc}, \ M_n = 400 \\ \textbf{OligoVAc-b-PS}, \ M_n = 6300, \ M_w \ / \ M_n = 1.5 \end{aligned}$