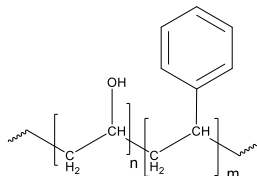


Sample Name: Poly(vinyl alcohol)-b-poly(styrene)

Sample #: P42328-VAS

Structure :

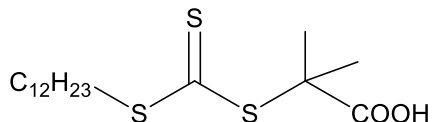


Composition :

$M_n \times 10^3$ VA-b-S	PDI
2.0-b-3.0	2.0

Synthesis Procedure:

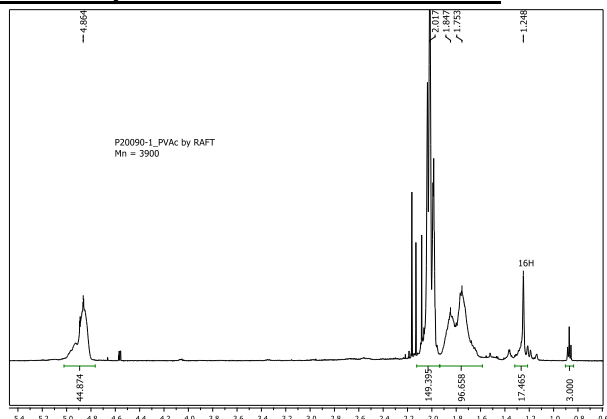
The product was obtained by successive RAFT polymerization of vinyl acetate and styrene using V501 as a radical initiator and the following chain transfer agent:



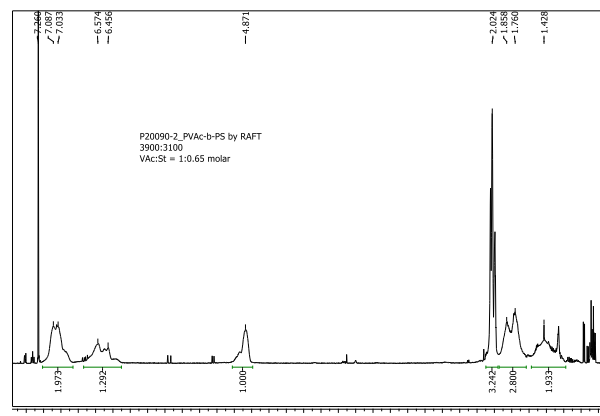
Characterization:

Poly(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 NMR M_n of PVAc as a reference, and PDI was estimated from SEC.

HNMR spectrum of PVAc -RAFT used:

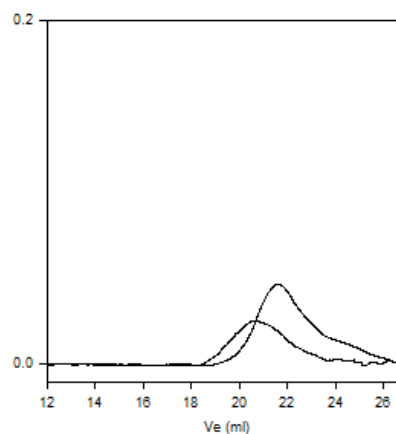


HNMR spectrum of PVAc-b-PS:



SEC profile of the block copolymer:

P42328-S-VAC



Size exclusion chromatography result:

S-b-VAC: 3,000-b-3900 Mw/Mn 2.0