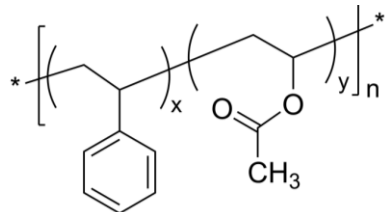


Sample Name:

Poly(styrene-co-vinyl acetate), random

Sample #: **P42311-SVAcran**

Structure:



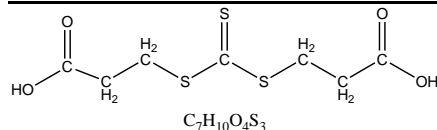
Composition:

Mn x 10 ³ PS-co-VA	PDI
23.0	2.6
PS (mol%): 97.0	

Synthesis Procedure:

Random Copolymer Poly(styrene-co-vinylacetate) is prepared by RAFT polymerization process.

RAFT macroinitiator used in this synthesis:

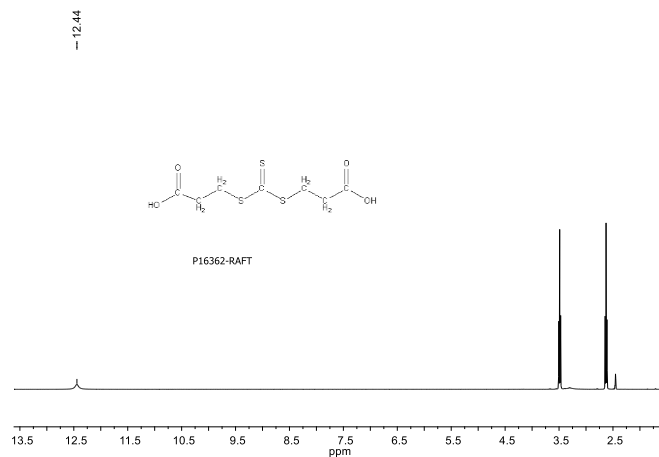


C₇H₁₀O₄S₃

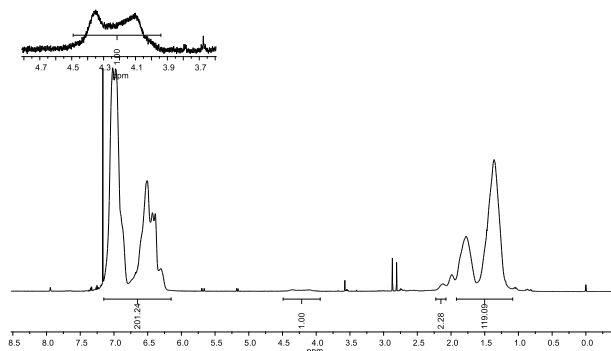
Mol. Wt.: 254.35

C, 33.06; H, 3.96; O, 25.16; S, 37.82

¹H NMR spectrum of RAFT macroinitiator:

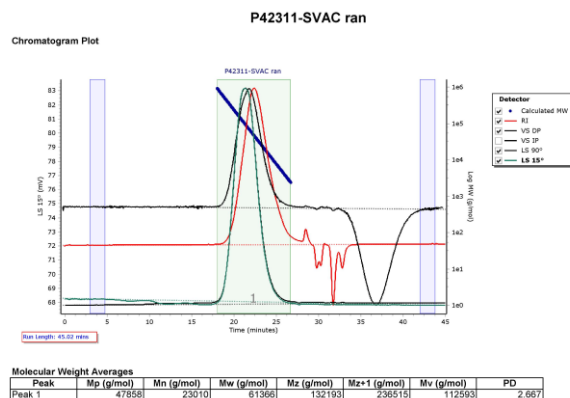


¹H NMR spectrum of the Sample:

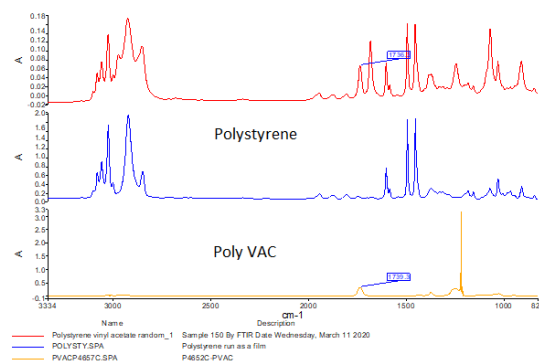


SEC elugram of the random copolymer:

Agilent GPC/SEC Software



FTIR spectrum of the polymer Vs polystyrene and Poly vinylacetate.



Characterization:

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