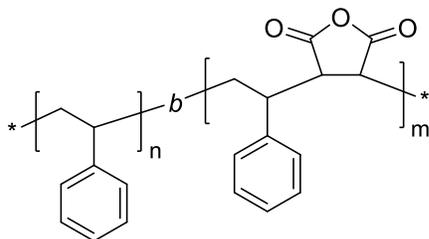


Sample Name: Poly(styrene)-b- (styrene-alt-maleic anhydride)

Sample #: P16384-SSMaA

Structure:



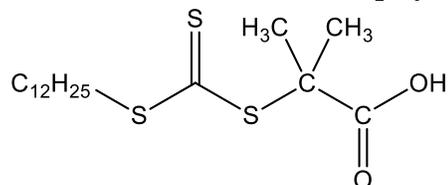
Composition:

$M_n \times 10^3$ S-b-(S-alt-MaA)	PDI
5.5-b-16.5	1.05

Synthesis Procedure:

The polymer was synthesized by RAFT polymerization process following literature method ¹⁾.

RAFT CTA structure for the polymerization:



Chemical Formula: $C_{17}H_{32}O_2S_3$
Molecular Weight: 364.6

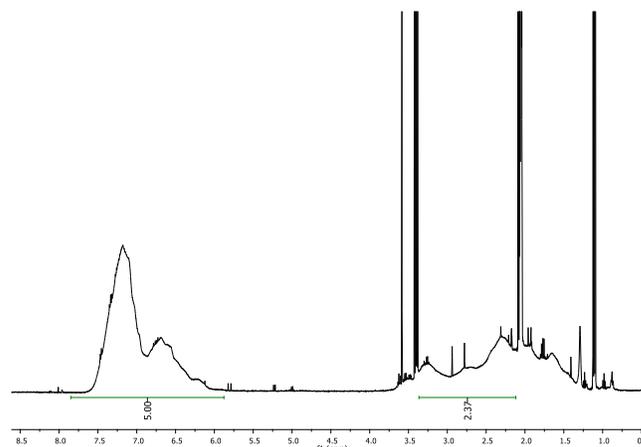
Characterization:

The product was characterized by size exclusion Chromatography (SEC) using polystyrene as standard. The composition was obtained from ¹H NMR by comparing aromatic protons at 6.5-7.6 ppm and maleic anhydride protons at 2.2-3.8 ppm.

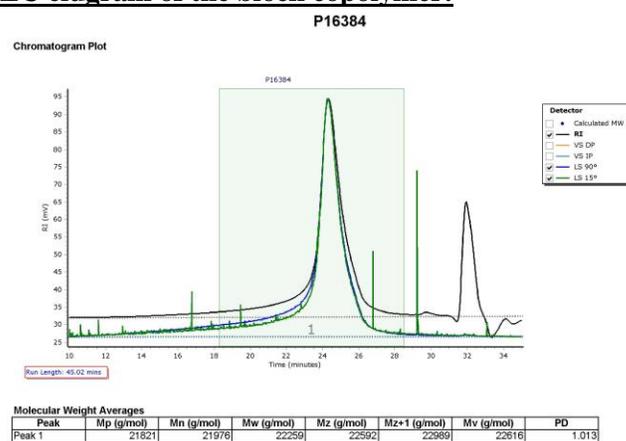
Solubility:

Polymer is soluble in Acetone, DMF and THF. It precipitates from diethyl ether.

¹H NMR Spectrum of the polymer in acetone-d₆:



SEC elugram of the block copolymer:



Reference:

- 1) Antalek B., Slater L., Bennett G., Macromolecules, 2019, 1025-1032