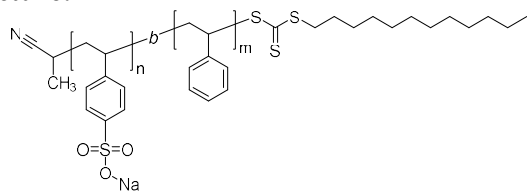


Sample Name: Poly (styrene sulfonic acid sodium salt-b-styrene)

Sample #: P60089B-SSO3Na-S

Structure:

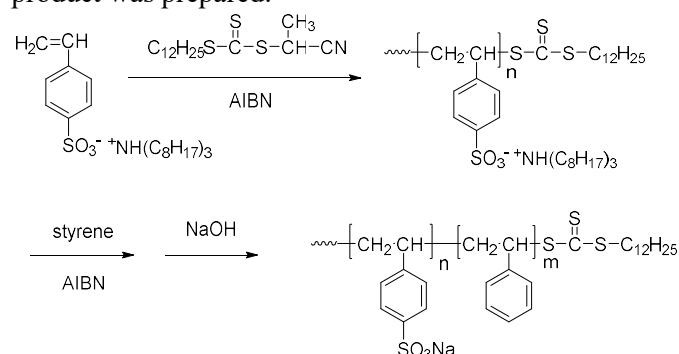


Composition:

Mn × 10 ³ PSSO3Na -b-PS	PDI
3.5-b-7.3	1.05

Synthesis:

The polymer was synthesized by RAFT polymerization process. The following reaction scheme shows how the product was prepared:



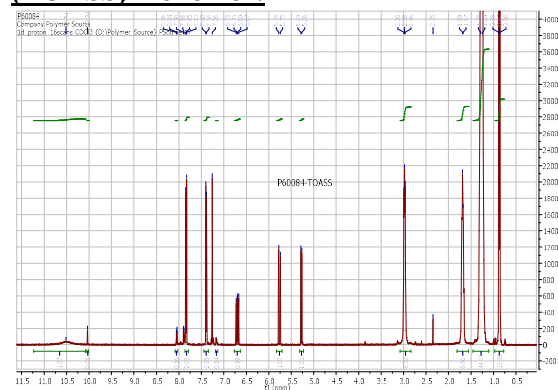
Characterization:

The product was characterized by size exclusion chromatography (SEC) in DMF as eluent and ¹H NMR.

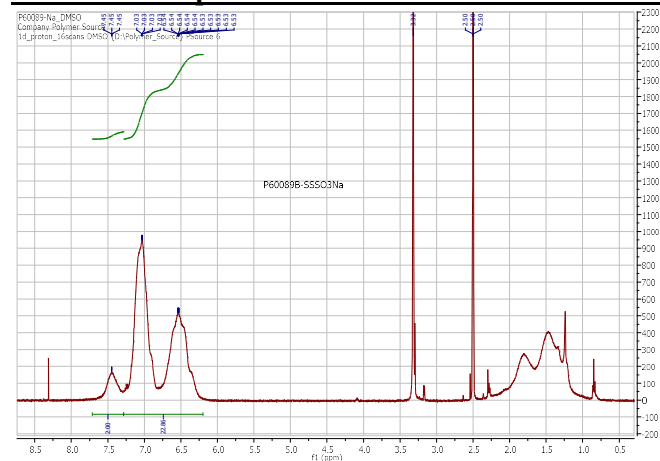
Solubility:

The polymer is soluble in DMSO.

HNMR of Trioctylammonium -4-styrene sulfonate (TOASS) monomer:



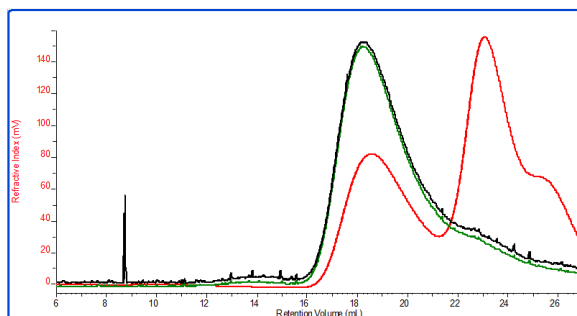
The block composition was calculated from HNMR:



SEC of the block copolymer:

P60089B

dn/dc	0.1650
Flow Rate	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA60K-Jan3-2019-0002.vcm



Sample	Mn	Mw	Mz	IV	Mw/Mn
P60089B_1_20	17,518	18,367	19,614	0.1376	1.048