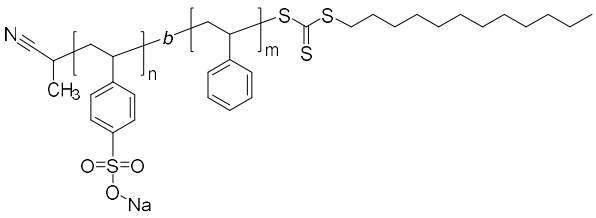
Sample Name: **Poly (Styrene sulfonic acid sodium salt-b-styrene)**

Sample #: **P60085B-SSO3Na-S**

Structure:

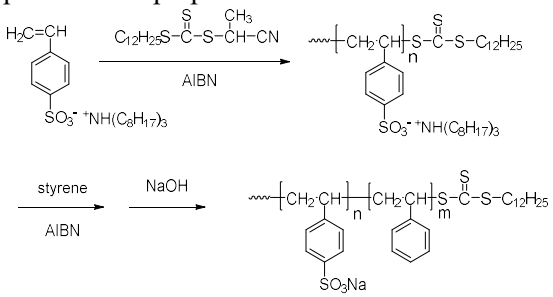


Composition:

Mn × 10^3 PSSO3Na-b-PS	PDI
4.5-b-8.3	1.23

Synthesis:

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



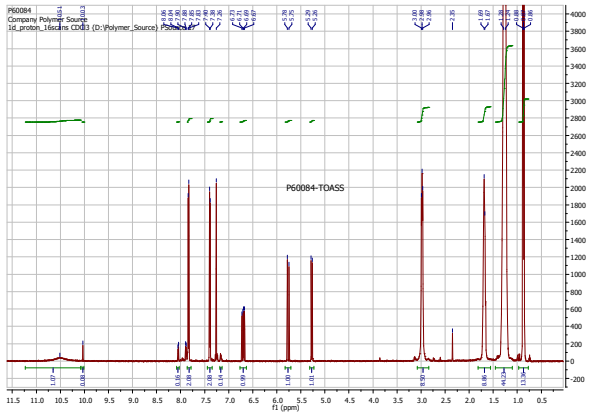
Characterization:

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

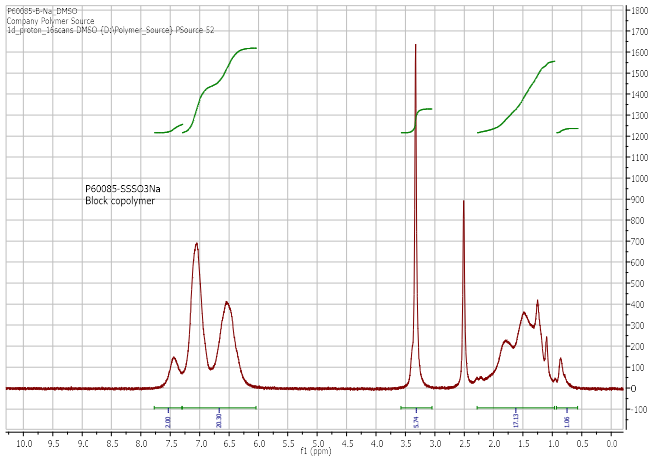
Solubility:

The polymer is soluble in DMSO.

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



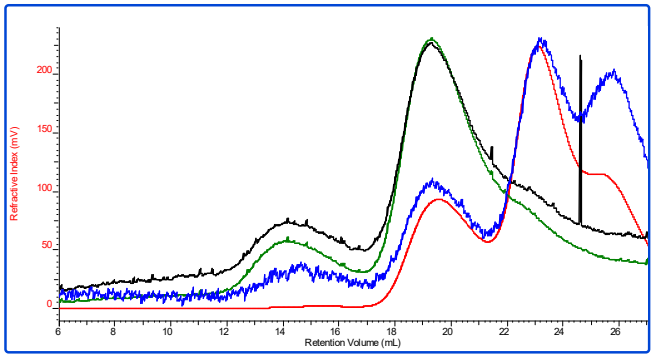
The block composition was calculated from HNMR:



SEC of the block copolymer:

P60085B

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
P60085B_1_20	5,955	7,298	8,231	0.1572	1.226