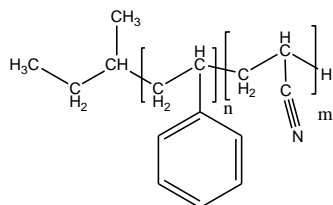


**Sample Name:** Poly (Styrene-b-Acrylonitrile)

**Sample #:** P41224A-SACN

**Structure:**



**Composition:**

Mn × 10 <sup>3</sup> SA-b-ACN	Mw/Mn (PDI)
17.0-b-27.0	1.6

Color: Ivory

**Synthesis Procedure:**

The polymer is prepared by anionic polymerization process.

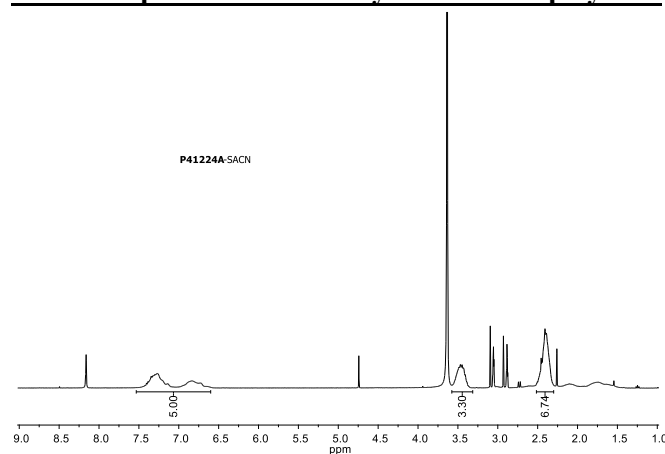
**Characterization:**

The polymer was characterized by size exclusion chromatography (SEC) in DMF and <sup>1</sup>H NMR.

**Solubility:**

Polymer is soluble in THF, DMF, and precipitated in methanol and hexanes.

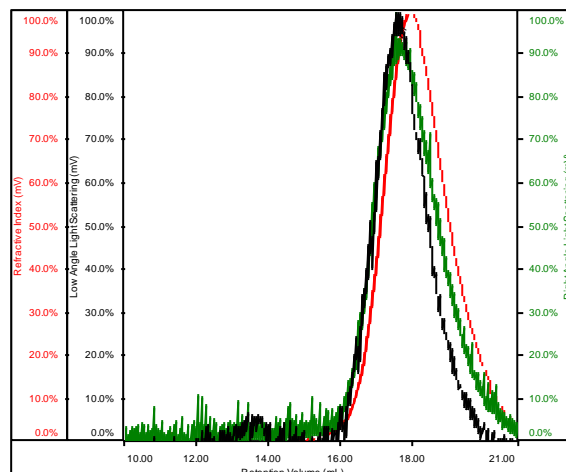
**<sup>1</sup>H NMR spectrum of the Polymer block copolymer:**



**SEC elugram of the S block:**

**P41224-S block**

Conc	1.7851
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm

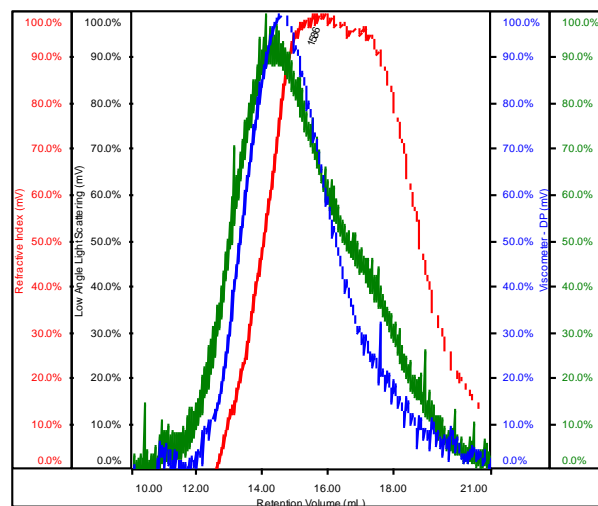


Sample	Mn	Mw	Mp	Mw/Mn	IV
P41224-1_01.vdt	17,315	18,401	17,710	1.063	0.2797

**SEC elugram of the Sample:**

**P41224A-SACN**

Conc	2.6665
dn/dc	0.1100
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P41224A-SACN_01(72).vdt	44,021	70,134	51,336	1.593	1.9488