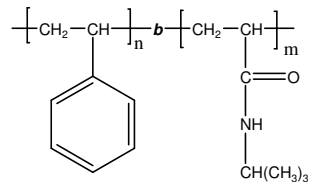


Sample Name:  
**Poly(styrene-b-N-isopropyl acrylamide)**

Sample #: **P40120-SNIPAM**

**Structure:**

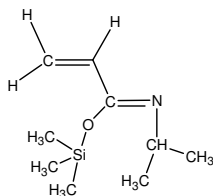
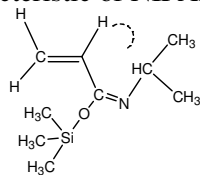


**Composition:**

Mn x 10 <sup>3</sup> S-b-NIPAM	Mw/Mn (PDI)
50.5-b-3.5	1.05

**Synthesis Procedure:** Poly(styrene-b-N-isopropyl acrylamide) is prepared by anionic polymerization of Styrene with NH protected NIPAM. Followed by hydrolysis in methanol with dichloroacetic acid.

**Characteristic of NIPAM-TMS monomer**



Major component  
 Component

Minor

2-isomeric species

**Composition:**

Mass	PDI
185	1
Purity	>98%

C<sub>9</sub>H<sub>19</sub>NOSi

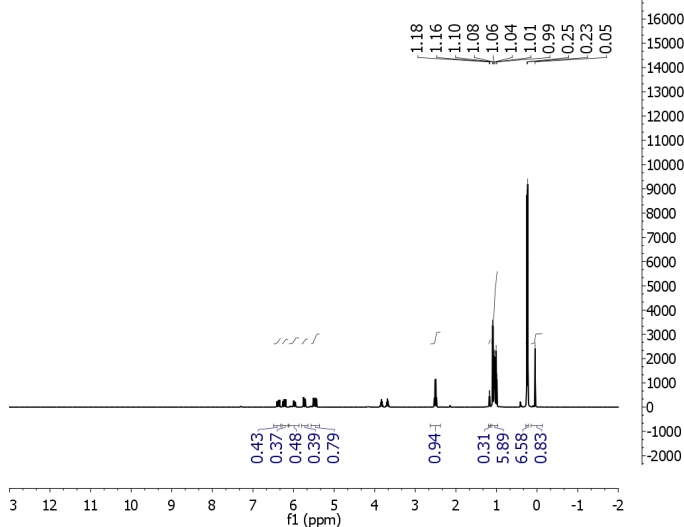
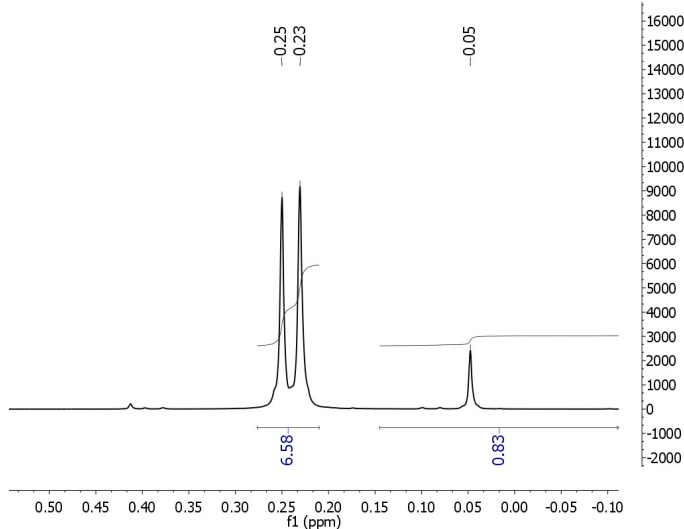
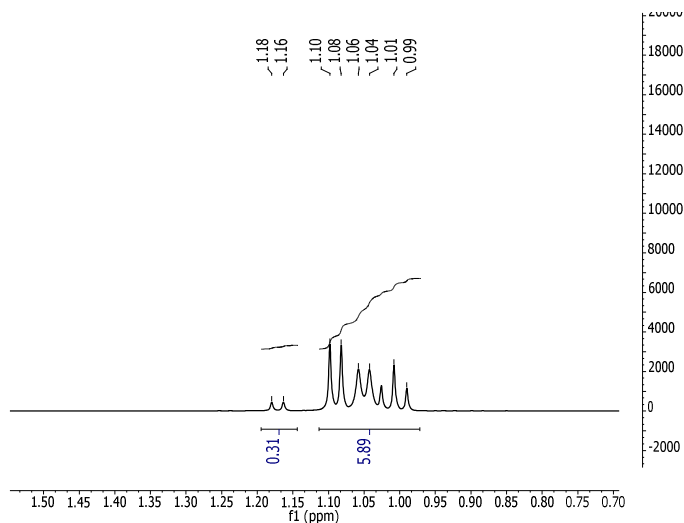
Mol. Wt.: 185.3

C, 58.32; H, 10.33; N, 7.56; O, 8.63; Si, 15.15

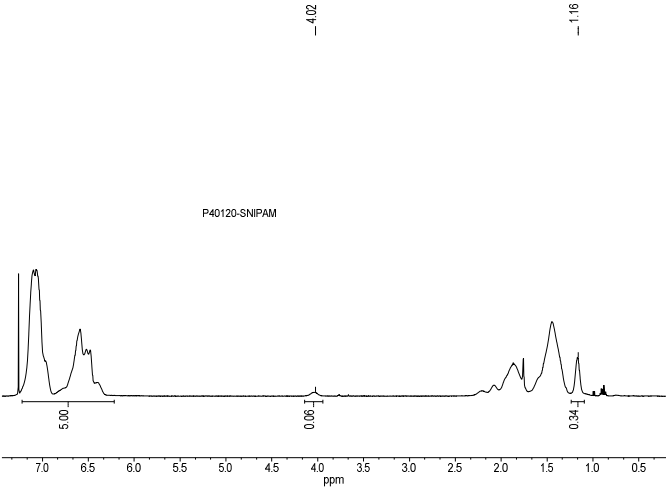
**Characterization:** The polymer was characterized by <sup>1</sup>H NMR and SEC.

**Solubility:** Poly(styrene-b-N-isopropyl acrylamide) block copolymer is soluble in CHCl<sub>3</sub>, DMF.

**<sup>1</sup>H NMR spectrum of the monomer:**



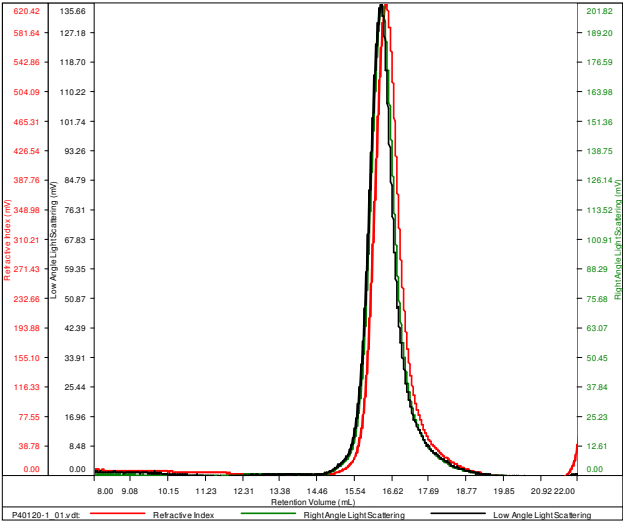
**<sup>1</sup>H NMR spectrum of SNIPAM:**



**SEC elugram of the first block:**

**P40120-S**

Conc (mg/mL)	9.1420
dn/dc (mL/g)	0.1650
Method	PS80k-August-08-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS

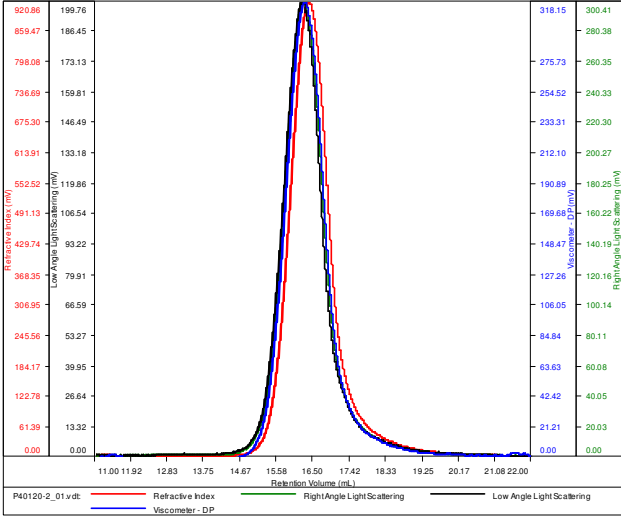


Sample	Mn	Mw	Mp	Mw/Mn	IV
P40120-1_01.vdt	50,654	54,143	50,287	1.069	0.2183

**SEC elugram of the bloc copolymer:**

**P40120-SNIPAM**

Conc (mg/mL)	18.0440
dn/dc (mL/g)	0.1590
Method	PS80k-August-08-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40120-2_01.vdt	53,296	56,192	52,938	1.054	0.2277