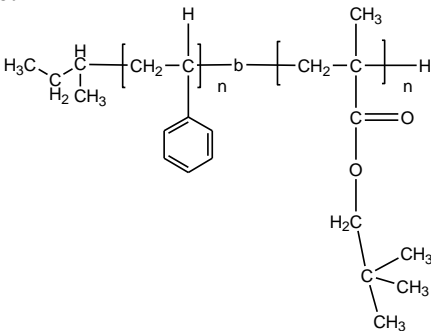


Sample Name: Poly (Styrene-b-neopentyl methacrylate)

Sample #: P40934A- SNPMA

Structure:



Composition:

|                               |           |
|-------------------------------|-----------|
| $M_n \times 10^3$<br>S-b-NPMA | $M_w/M_n$ |
| 22.5-b-19.0                   | 1.05      |
| $T_g$ for NPMA block:         | 119°C     |

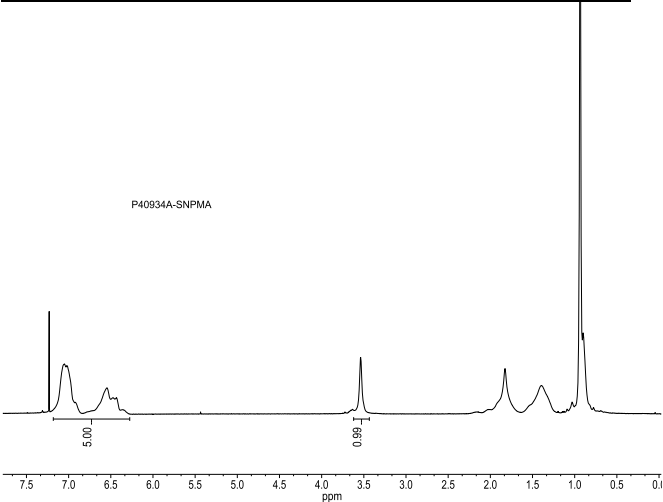
Synthesis:

The diblock copolymer was synthesized by anionic polymerization process.

Characterization:

The polymer was characterized by  $^1\text{H-NMR}$  and size exclusion chromatography (SEC).

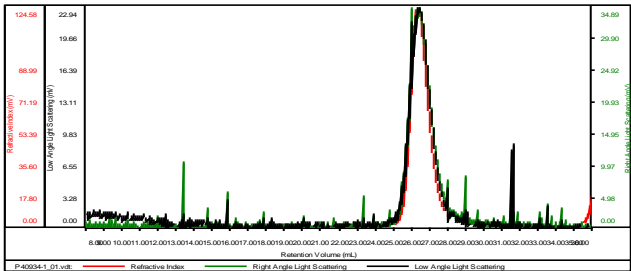
$^1\text{H NMR}$  (500 MHz, in  $\text{CdCl}_3$ ) of Block copolymer



SEC elugram of the polymer:

P40934-1

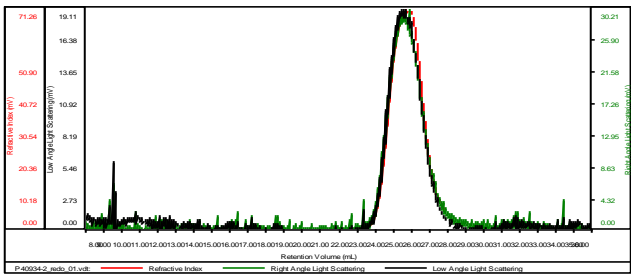
|                       |                         |
|-----------------------|-------------------------|
| Concentration (mg/mL) | 3.8776                  |
| Sample dn/dc (mL/g)   | 0.1850                  |
| Method File           | PS80K-jan-2018-0000.vcm |
| Column Set            | 3x PL 1113-6300         |
| Solvent               | THF                     |



| Sample          | $M_n$ (Da) | $M_w$ (Da) | $M_w/M_n$ | IV (dL/g) | $M_p$ (Da) |
|-----------------|------------|------------|-----------|-----------|------------|
| P40934-1_01.vdt | 22,312     | 23,420     | 1.050     | 0.1473    | 19,532     |

P40934-2

|                       |                         |
|-----------------------|-------------------------|
| Concentration (mg/mL) | 5.6890                  |
| Sample dn/dc (mL/g)   | 0.1300                  |
| Method File           | PS80K-jan-2018-0000.vcm |
| Column Set            | 3x PL 1113-6300         |
| Solvent               | THF                     |



| Sample           | $M_n$ (Da) | $M_w$ (Da) | $M_w/M_n$ | IV (dL/g) | $M_p$ (Da) |
|------------------|------------|------------|-----------|-----------|------------|
| P40934-2_redo_01 | 41,273     | 41,520     | 1.006     | 0.1966    | 40,042     |