



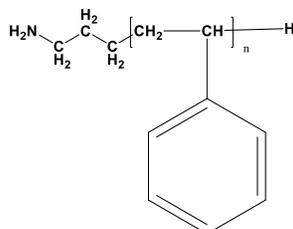
## Product Profile

### Identification

**Product Name:** Amino Terminated Polystyrene

**Product Lot Number:** P44251A-SNH2

**Chemical Architecture:**

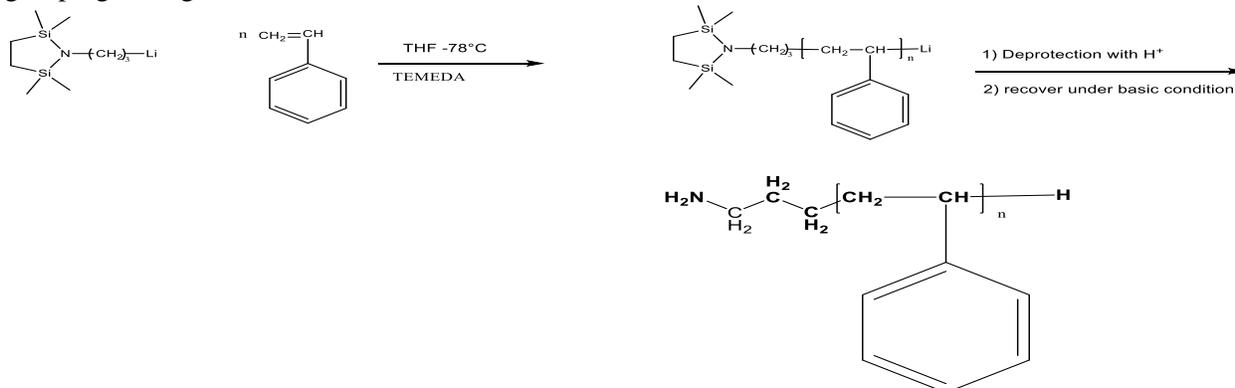


**Composition:**

|                    |               |
|--------------------|---------------|
| <b>Mn (g/mole)</b> | <b>67,000</b> |
| <b>Mw (g/mole)</b> | <b>90,000</b> |
| <b>Mw/Mn</b>       | <b>1.30</b>   |
| <b>Tg</b>          | <b>102 °C</b> |

### Method of Synthesis

Amino terminated polystyrene was synthesized by anionic living polymerization with different end-grouping strategies. The reaction schemes are shown below:



**Solubility in different solvents:**

|         |   |          |   |
|---------|---|----------|---|
| THF     | √ | Methanol | X |
| CHCl3   | √ | Hexane   | X |
| Toluene | √ |          |   |



## Validation of Architecture

### A. Gel Permeation Chromatography (GPC), SEC Profile:

The product was characterized by size exclusion chromatography (SEC).

