



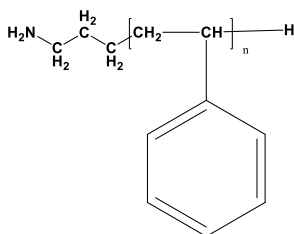
## Product Profile

### Identification

**Product Name:** Amino Terminated Polystyrene

**Product Lot Number:** P45006G-SNH2

**Chemical Architecture:**

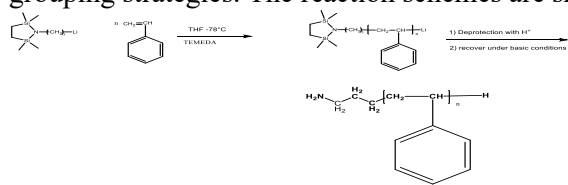


**Composition:**

<b>Mn (g/mole)</b>	<b>516,000</b>
<b>Mw (g/mole)</b>	<b>537,000</b>
<b>Mw/Mn</b>	<b>1.03</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:



**Ninhydrin test: Pass- Blue color**



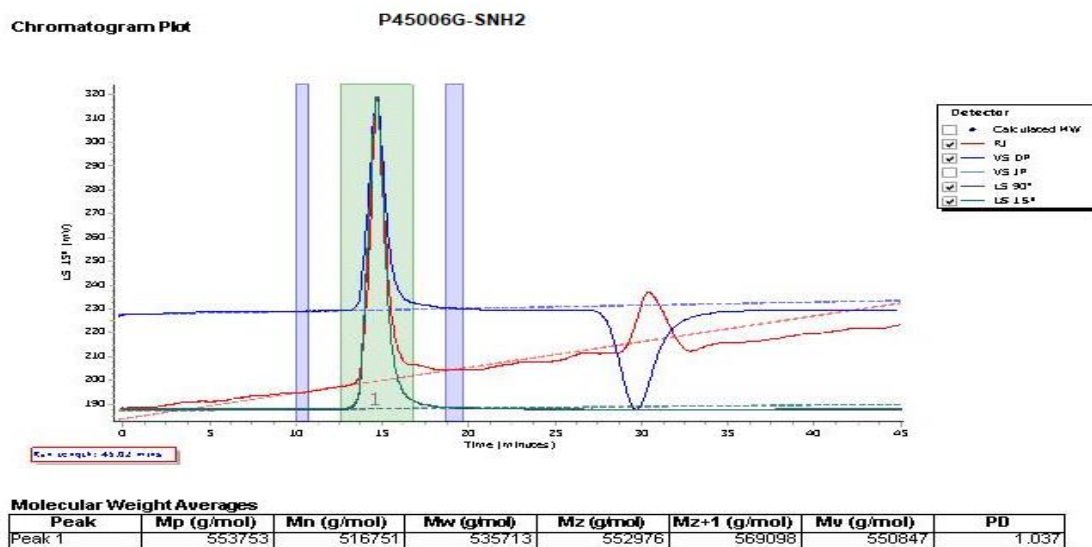
#### Solubility in different solvents:

THF	√	Methanol	X
CHCl <sub>3</sub>	√	Hexane	X
Toluene	√		

### Validation of Architecture

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

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



#### B. <sup>1</sup>H NMR

