



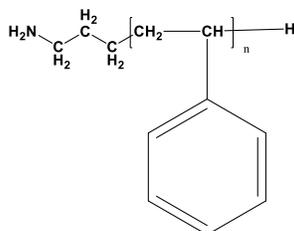
## Product Profile

### Identification

**Product Name:** Amino Terminated Polystyrene

**Product Lot Number:** P45006N-SNH2

**Chemical Architecture:**

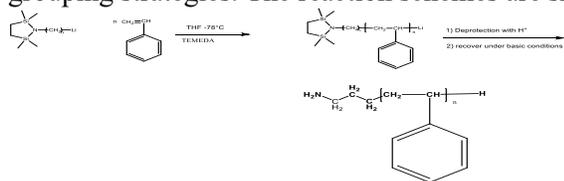


**Composition:**

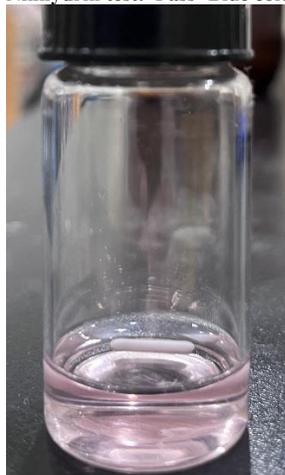
<b>Mn (g/mole)</b>	<b>637,000</b>
<b>Mw (g/mole)</b>	<b>655,000</b>
<b>Mw/Mn</b>	<b>1.03</b>
<b>Tg</b>	<b>102 °C</b>

### 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**

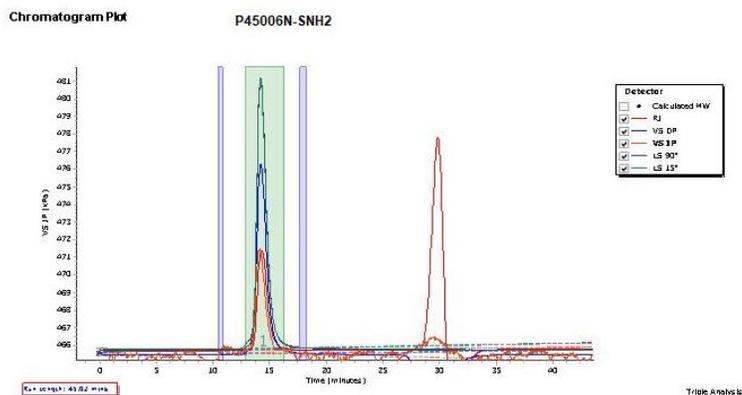


**Solubility in different solvents:**

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).



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mu (g/mol)	PD
Peak 1	681554	637397	654654	670355	684842	689073	1.027

**B. H NMR**
