



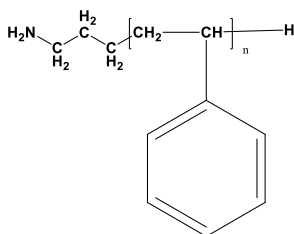
Product Profile

Identification

Product Name: Amino Terminated Polystyrene

Product Lot Number: P45006K-SNH2

Chemical Architecture:

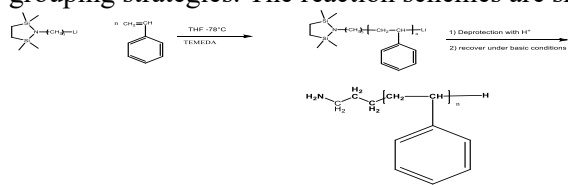


Composition:

| | |
|-------------|---------|
| Mn (g/mole) | 704,000 |
| Mw (g/mole) | 719,000 |
| Mw/Mn | 1.02 |
| Tg | 102 °C |

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



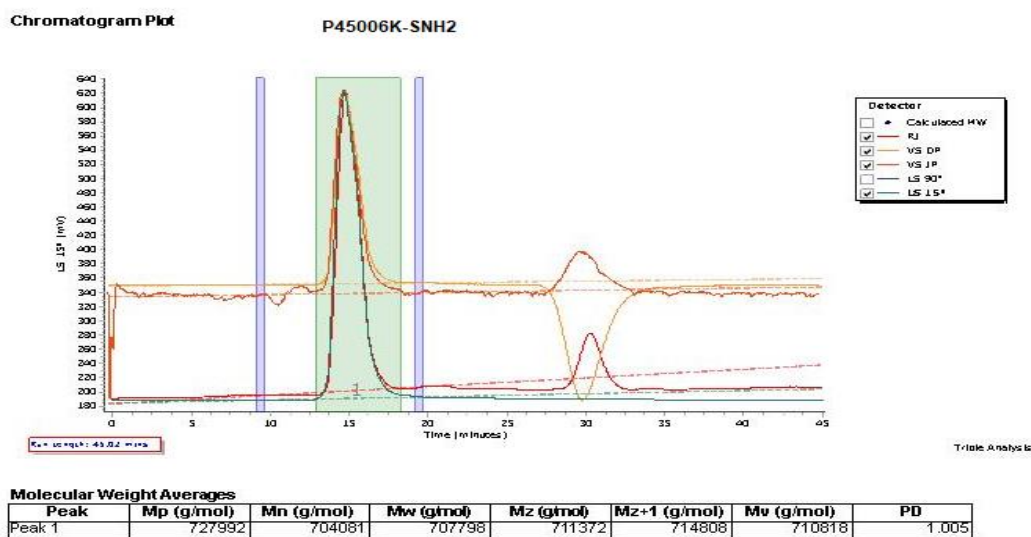
Solubility in different solvents:

| | | | |
|-------------------|---|----------|---|
| THF | √ | Methanol | X |
| CHCl ₃ | √ | Hexane | X |
| Toluene | √ | | |

Validation of Architecture

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

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



B. H NMR

