



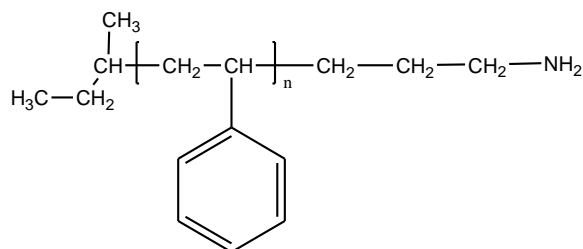
Product Profile

Identification

Product Name: Amino Terminated Polystyrene

Product Lot Number: P4060-R-SNH2

Chemical Architecture:

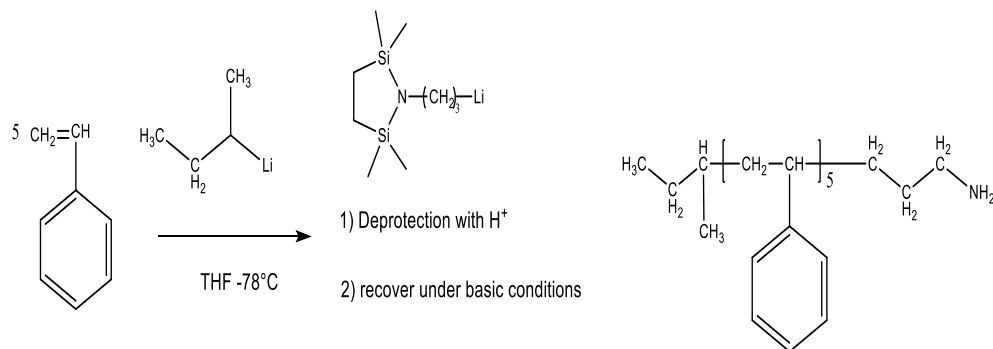


Composition:

Mn (g/mole)	16,000
Mw (g/mole)	18,000
Mw/Mn	1.15
Primary Amino group test using ninhydrin	Blue color pass

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
CHCl_3	✓	Hexane	X
Toluene	✓		

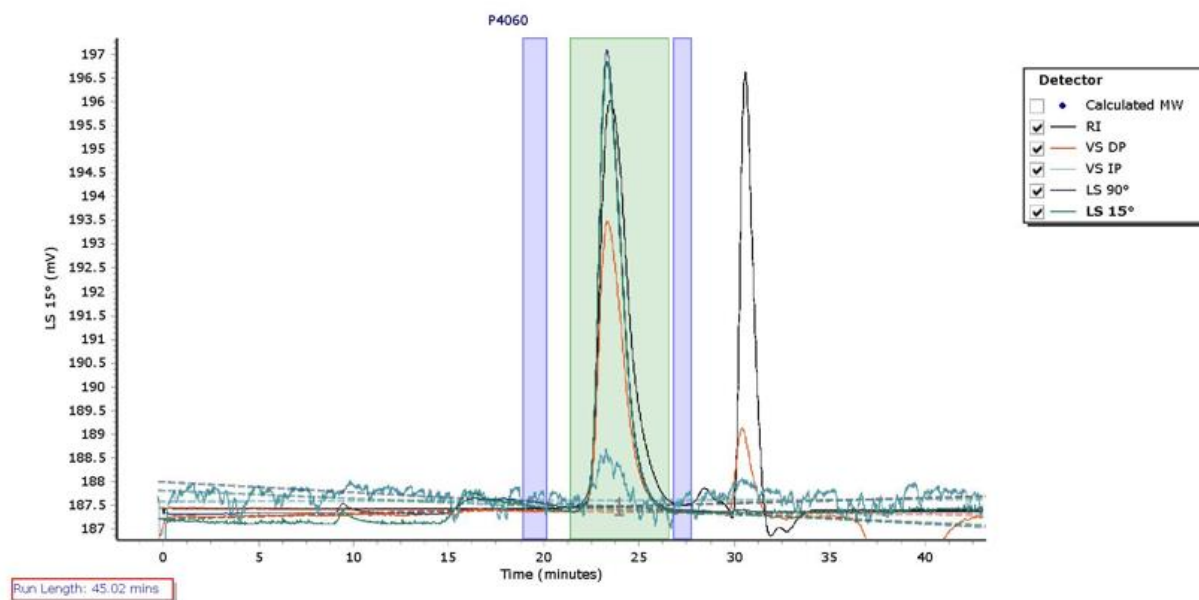
Validation of Architecture

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

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC).

P4060

Chromatogram Plot



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	20704	15858	18206	20231	21971	19986	1.148