

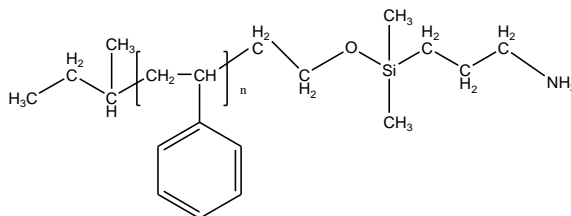
Product Profile

Identification

Product Name: Amino Terminated Polystyrene-Silane linkage

Product Lot Number: P40054 -SNH2

Product Chemical Architecture:



Composition:

Mn x 10 ³	Mw/Mn (PDI)	Microstructure of Polymer by ¹ H NMR
2.5	1.15	Atactic
NH ₂ functionality > 98%		

Method of Synthesis: Description of Synthesis

ω-amino terminated polystyrene was synthesized by anionic living polymerization with different end-grouping strategies.

solubility in different solvents

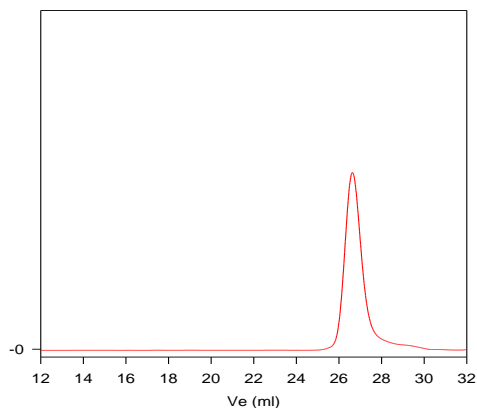
THF	✓		
CHCl ₃	✓	CHCl ₃	✓
Toluene	✓		

Validation of Architecture:

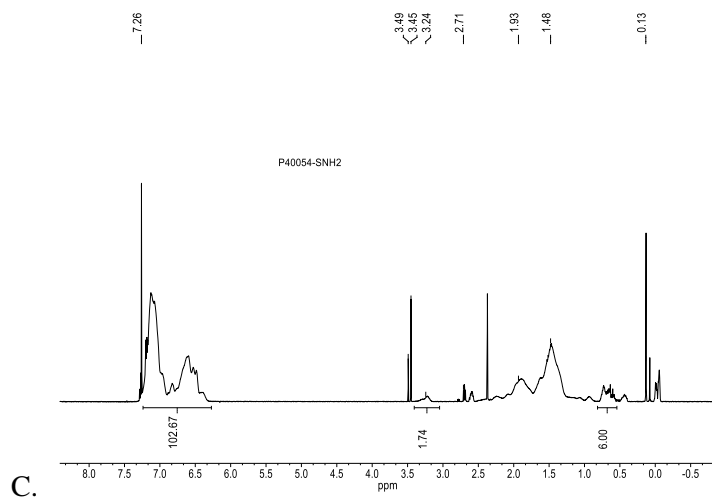
A. Gel Permeation Chromatography (GPC), SEC- Profile

B. SEC elugram of the polymer:

P40054-SNH2



Size exclusion chromatography of Amino Terminated polystyrene
NH₂ protected by Naphthyl isocyanate
M_n=2500, M_w=2900, PI=1.15, functionality>0.98%



Ref: for details

Synthesis of Asymmetric Telechelic Polymers Bearing a Primary Amino End Group SUNIL K. VARSHNEY,¹ ZHENGJI SONG,¹ JIAN XIN ZHANG,¹ ROBERT JEROME *Journal of Polymer Science: Part A: Polymer Chemistry*, Vol. 44, 3400–3405 (2006)