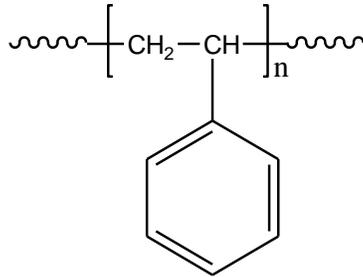


Sample Name: Polystyrene (electronic grade)

Sample #: P41750E-S

Structure:



Composition:

$M_n \times 10^3$	PDI
3.8	1.07

Synthesis:

The polymer was synthesized by anionic polymerization process.

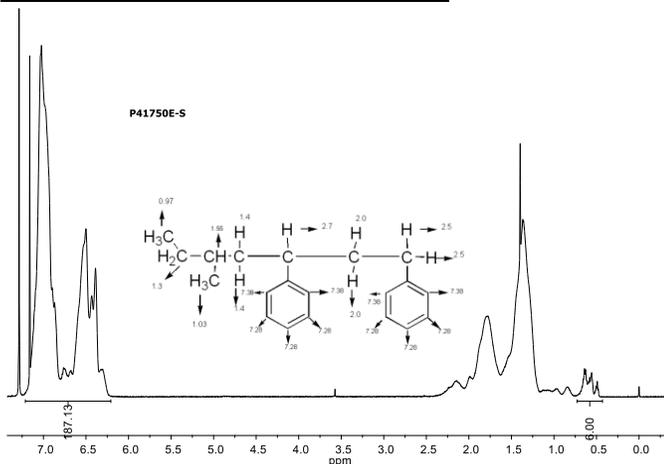
Characterization:

The product was characterized by size exclusion chromatography (SEC) and ^1H NMR.

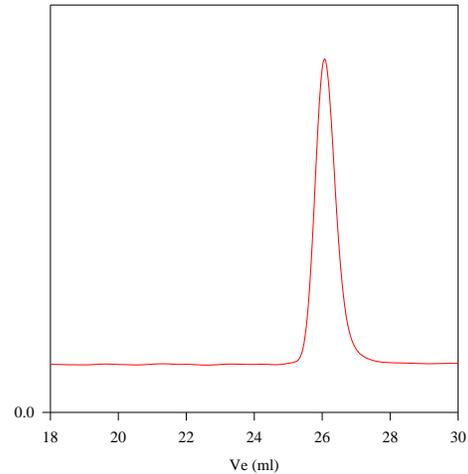
Purification:

The obtained polymer was dissolved in benzene and filter through a membrane 0.5 μ nylon filter. The obtained solution was freeze-dried under reduced pressure.

H NMR spectrum of the Sample:



SEC profile of Homopolymer:



Size exclusion chromatograph of polystyrene:

$M_n=3,800$, $M_w=4,000$, $PI=1.07$

Thermal analysis:

Thermal analysis of the sample was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of $10^\circ\text{C}/\text{min}$. The inflection glass transition temperature (T_g) has been considered.

