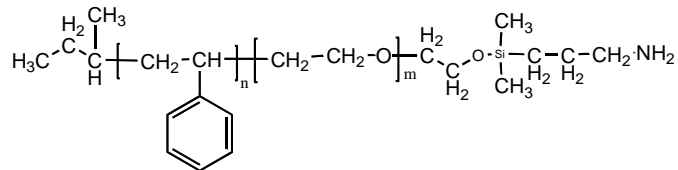


Sample Name:
Poly(styrene-*b*-ethylene oxide), ω -amino-terminated

Sample #: **P40999-SEO-NH2**

Structure:



Composition:

Mn x 10 ³ S-b-EO	PDI
1.6-2.5	1.08

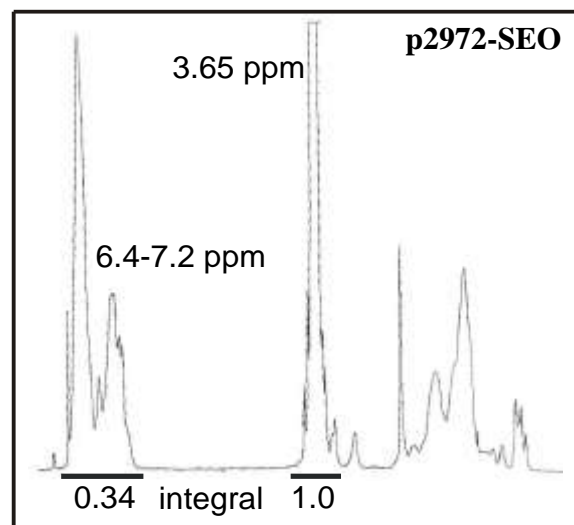
Synthesis Procedure:

The diblock copolymer is prepared by living anionic polymerization.

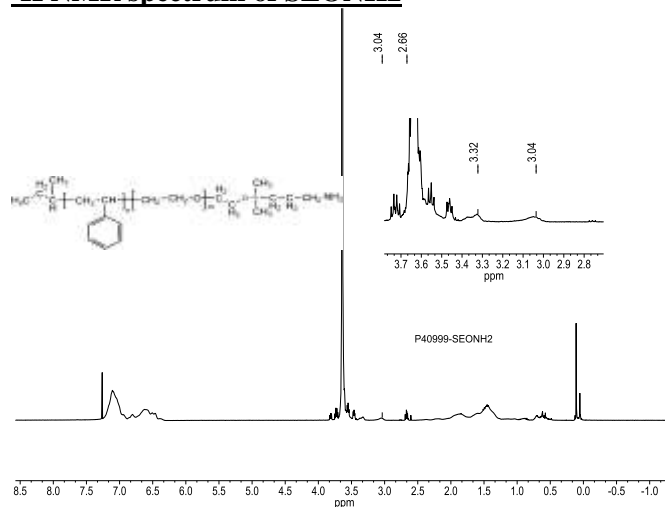
Characterization:

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

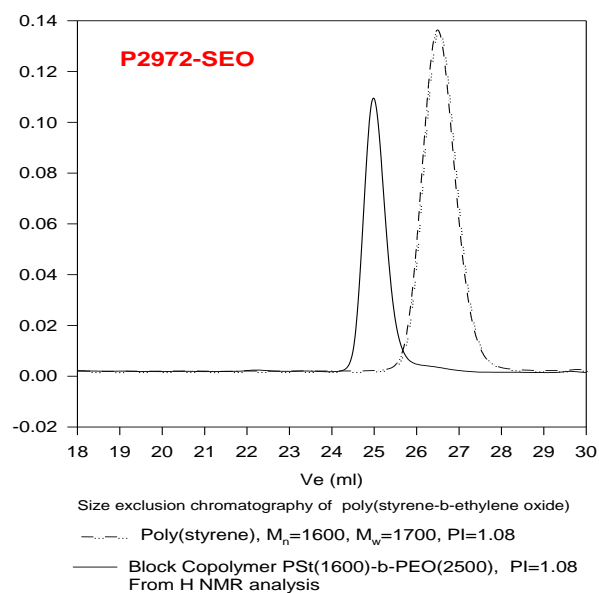
¹H NMR spectrum of the SEO sample used:



¹H NMR spectrum of SEONH2



SEC profile of the block copolymer used (Lot #P2972)

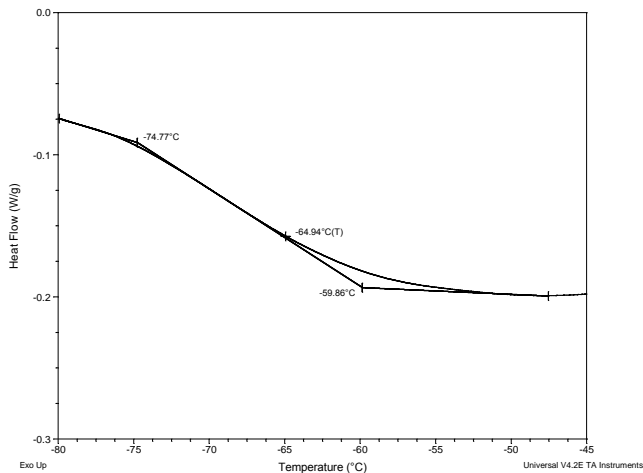


Thermal analysis of the SEO sample used
(Lot #P2972)

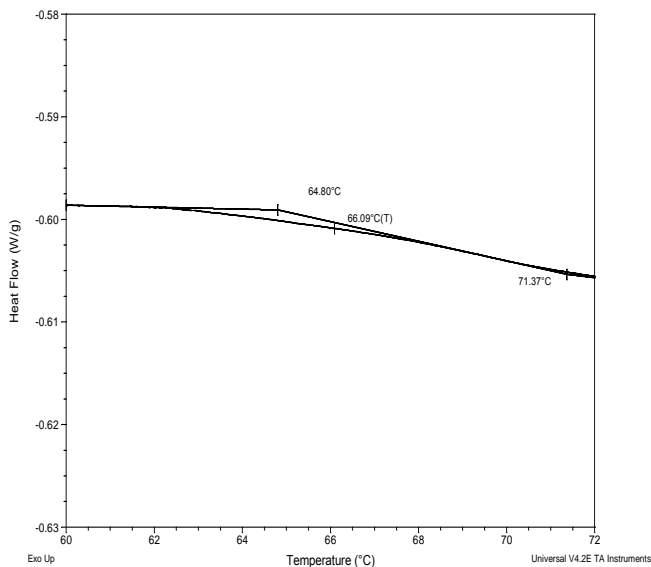
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 15°C/min. The inflection glass transition temperature (T_g) has been considered..

Thermogram for the sample

For PEO block:



For PS block



Thermal analysis results at a glance

For PS block T_g : 66°C		
For PEO block		
T_g : -65°C	T_m : 46°C	T_c : -28°C

Melting and crystallization curve for the PEO block

The peak melting temperature (T_m) was obtained on heating where as cooling of sample resulted the peak crystallization temperature (T_c).

