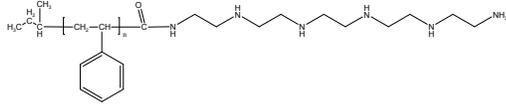


Sample Name:
Pentaethyl Hexamine Terminated
Polystyrene

Sample #: P18042A-SPEHA

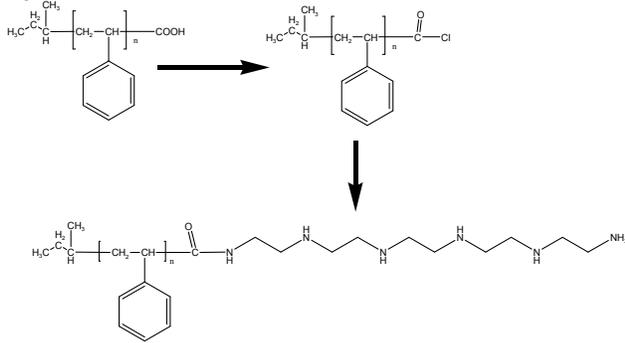
Structure:



Composition:

Mn x 10 ³	PDI
4.8	1.13
T _g (°C)	105
Functionality %	98

Synthesis Procedure:



Characterization:

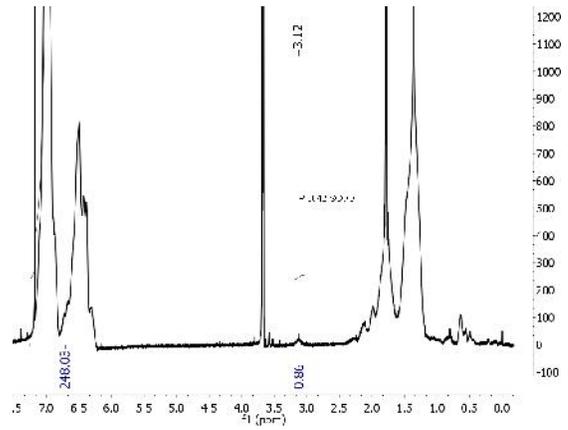
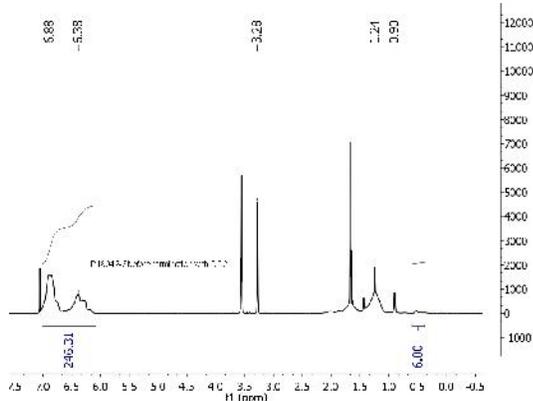
The molecular weight and polydispersity index of this polymer were determined before addition of the CO₂H function, by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. Polymer functionality was determined by titration with NaOH using phenolphthalein as the indicator.

Thermal analysis:

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

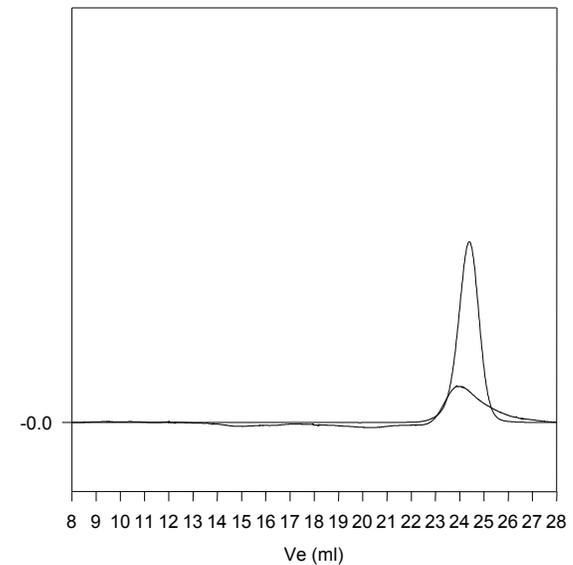
Solubility:

Polymer is soluble in toluene, THF, CHCl₃ and can be precipitated in water and cold methanol.



SEC of Sample:

P18042A-SPEHA



Size exclusion chromatography of monicarboxy terminated polystyrene (before adding Co₂).

M_n=4800, M_w=5500, PI=1.13, functionality>99%

After reacting with PentamethyleneHexamine

DSC thermogram for the sample:

