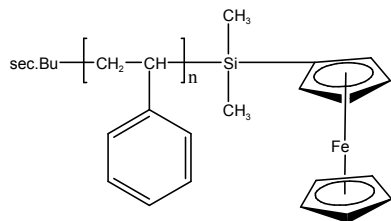


Sample Name:**Ferrocenyl Dimethyl Silane Terminated Polystyrene****Sample #: P10020- SFerro****Structure:****Composition:**

$M_n \times 10^3$	PDI
30.0	1.15
T_g (°C)	103

Synthesis Procedure:

Ferrocenyl dimethyl silane terminated polystyrene was prepared by living anionic polymerization. The living polymer was terminated by ferrocenyl chlorodimethyl silane.

Characterization:

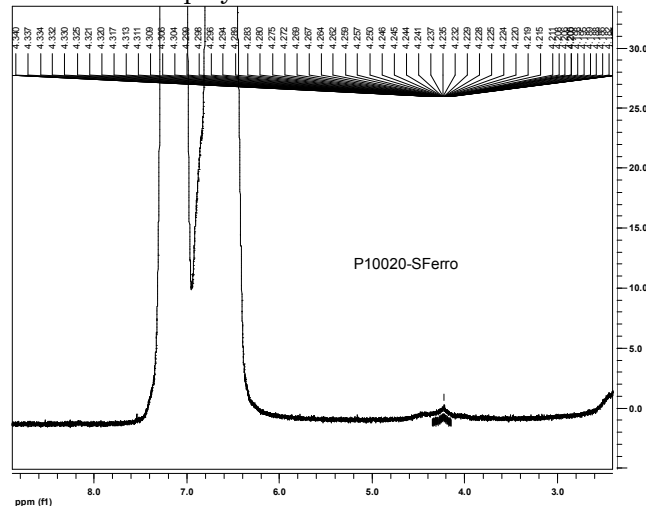
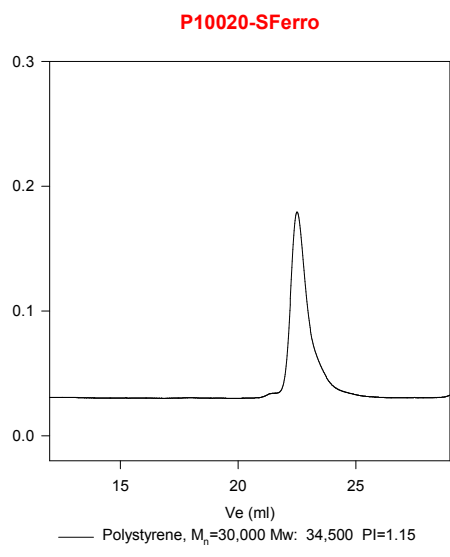
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. Polymer functionality was determined by titration with NaOH using phenolphthalein as the indicator.

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, $CHCl_3$ and can be precipitated in hexane and methanol.

HNMR of the polymer:**SEC for the sample:****DSC thermogram for the sample:**