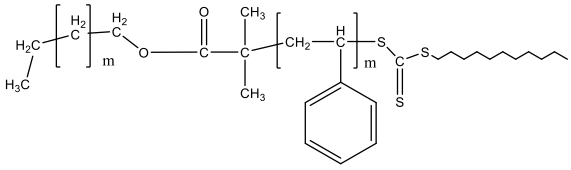
Sample Name: **Poly(methylene)-b-poly(styrene)**

Sample #: **P42201-M-S**

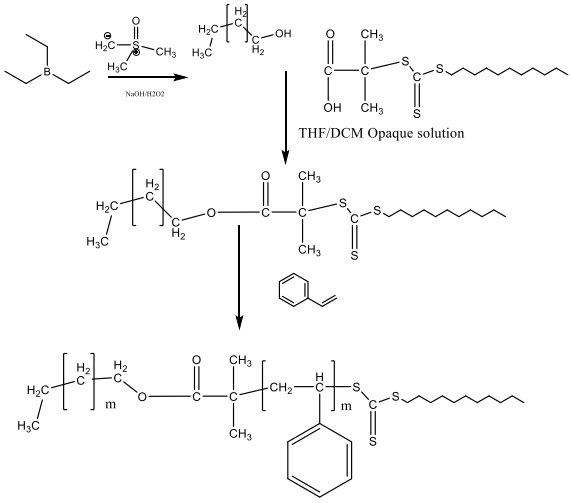
Structure:



Composition:

Mn x 10^3 PM-b-PS	PDI
1.0-b-4.5	1.2

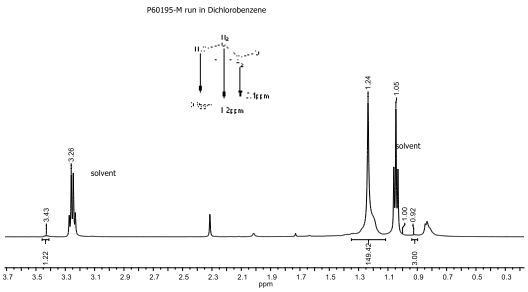
Synthesis:
The following reaction scheme shows how the product was prepared:



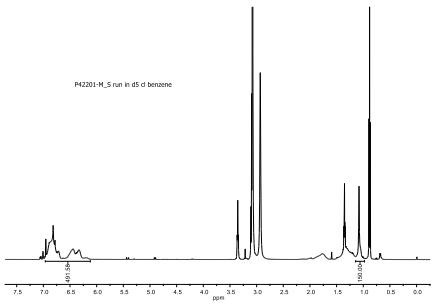
Characterization:
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in Toluene at 70oC. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

Solubility:
Poly(methylene)-b-poly(styrene) is soluble in hot toluene and hot xylene. The polymer is insoluble in hexane, methanol and ethers.

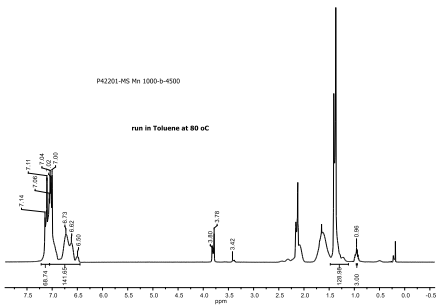
HNMR spectrum of Poly Methylene OH terminated (lot# P60195) run in d5 Chlorobenzene:



HNMR spectrum of the Sample runs in d5 Chlorobenzene:



HNMR spectrum of the Sample runs in Toluene at 80 ºC:



SEC profile of the Poly Methylene OH terminated (lot# P60195):