

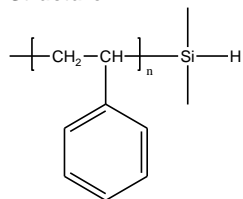
Sample Name:
Dimethyl Silane Terminated Polystyrene

SEC of Sample:

Sample #: P1488-SSiH

P1488-SiH

Structure:

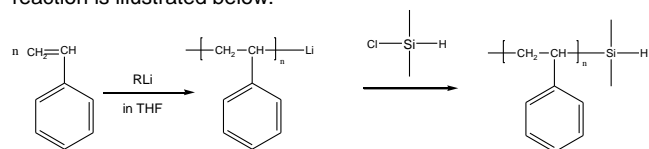


Composition:

| Mn x 10 ³ | PDI |
|----------------------|------|
| 12.0 | 1.02 |

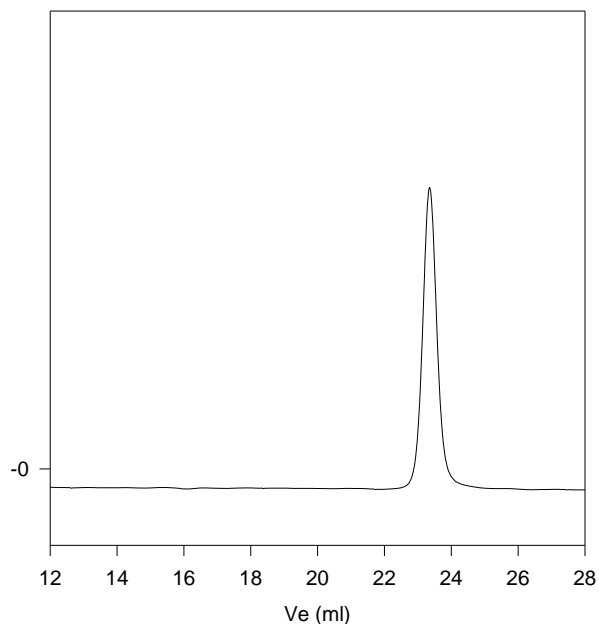
Synthesis Procedure:

Dimethyl Chlorosilane Terminated Polystyrene was prepared by anionic living polymerization of styrene in THF and termination with a large excess of dimethyl dichlorosilane. The scheme of the reaction is illustrated below:



Characterization:

The molecular weight and polydispersity index of this polymer were determined before functionalization with silane by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.



Size exclusion chromatography of silane Terminated polystyrene:

$M_n=12000$, $M_w=12300$, $M_z=12600$, $PI=1.02$, functionality>0.95

