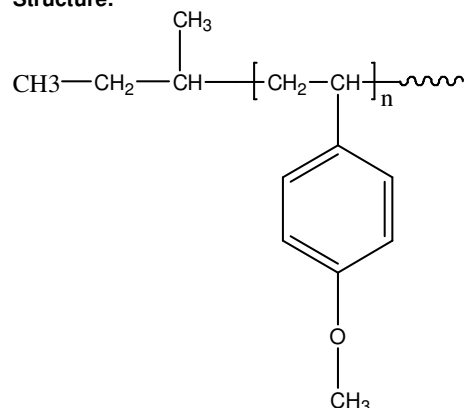


Sample Name: Poly(4-methoxy styrene)

SEC of Homopolymer:

Sample #: P5336-4MeOS

Structure:

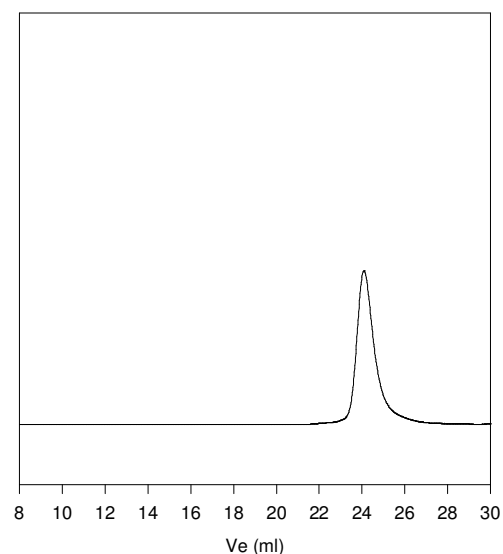


n: about 5

Composition:

$M_n \times 10^3$	PDI
20.5	1.16

P5336-4MeOS

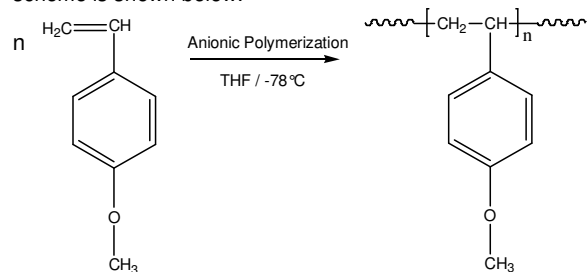


Size exclusion chromatography of poly(4-methoxy styrene):

$M_n=20500$, $M_w=23500$, $PI=1.16$

Synthesis Procedure:

Poly(4-methoxy styrene) is synthesized by living anionic polymerization of 4-methoxy styrene and the reaction scheme is shown below.



Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography and from HNMR.

Solubility:

Poly(4-methoxy styrene) is soluble in DMF, THF, toluene and CHCl_3 . It precipitates from methanol, ethanol, water and hexanes.