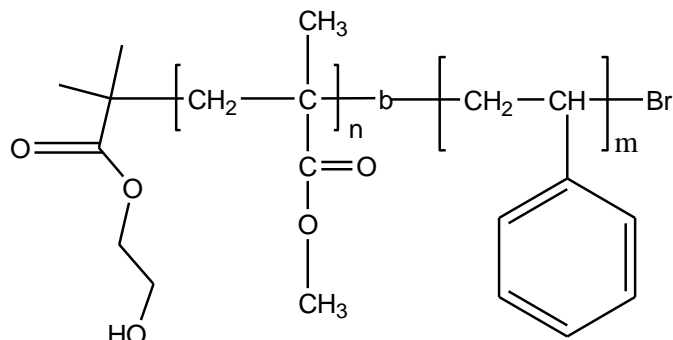


Sample Name: Hydroxy Terminated Poly(methylmethacrylate-b-styrene) with Bromide terminal end towards polystyrene block

Sample #: P6646A-HOMMASBr

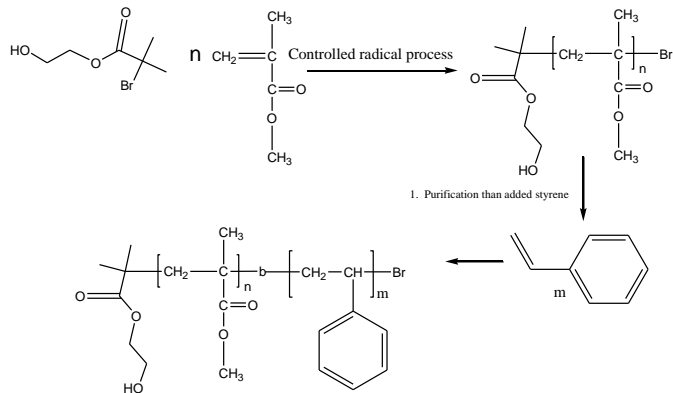


Composition:

Mn x 10 ³ MMA-b-St	Mw/Mn (PDI)	PMMA microstructure (Iso:hetero:syndio)
45.0-b-24.0	1.26	3: 35: 62

Synthesis Procedure:

Polymer is obtained by controlled radical process using different ligand system. The scheme of the reaction is illustrated below:



Characterization:

Polymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from ¹H-NMR spectroscopy.

Figure: ¹H NMR spectrum of the sample

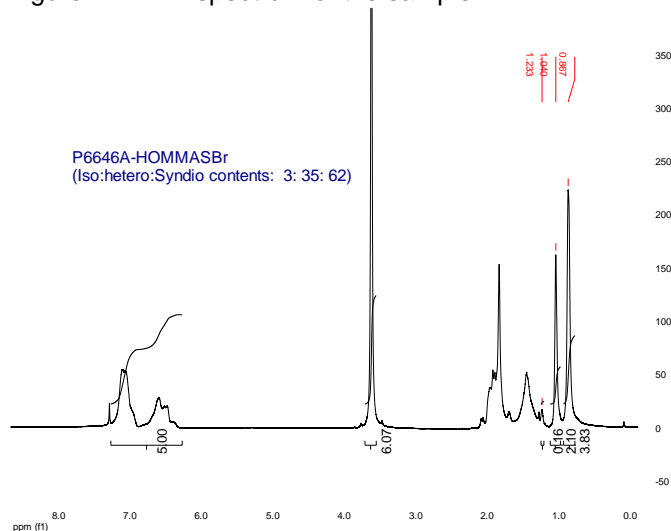
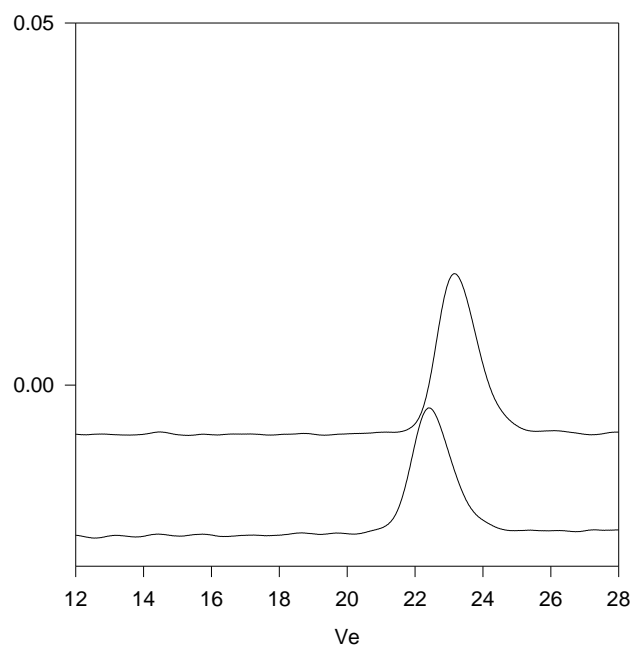


Figure: SEC profile of the block copolymer

P6646A-HOMMASBr



Size Exclusion Chromatography :

- First PMMA block bear terminal Br group M_n=45000, M_w/M_n=1.2
- After reaction with styrene Mn : 45000-b-24000 Mw/Mn: 1.26 Composition from HNMR