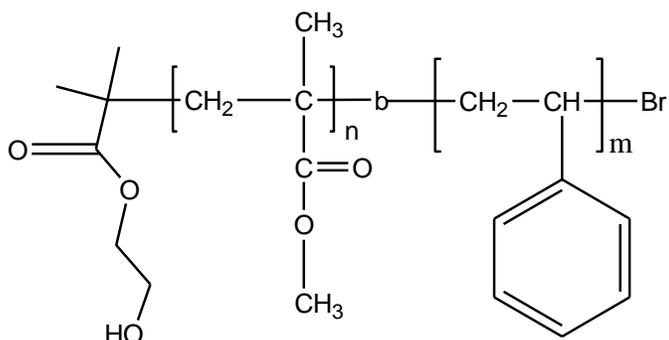


**Sample Name: Hydroxy Terminated Poly(methylmethacrylate-b-styrene) with Bromide terminal end towards polystyrene block**

**Sample #: P6649-HOMMASBr**

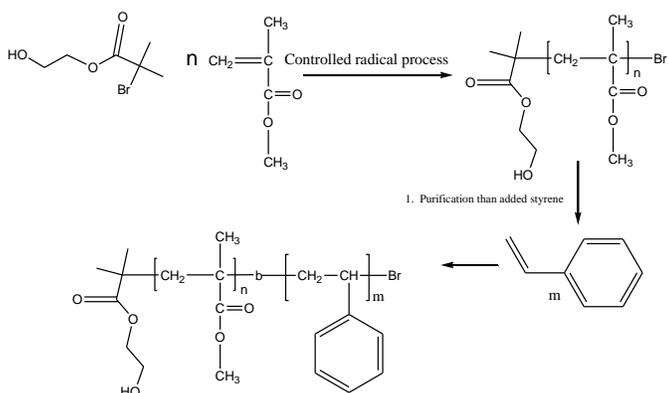


**Composition:**

Mn x 10 <sup>3</sup> MMA-b-St	Mw/Mn (PDI)	PMMA microstructure (Iso:hetero:syndio)
26-b-32.0	1.3	10:22:68

**Synthesis Procedure:**

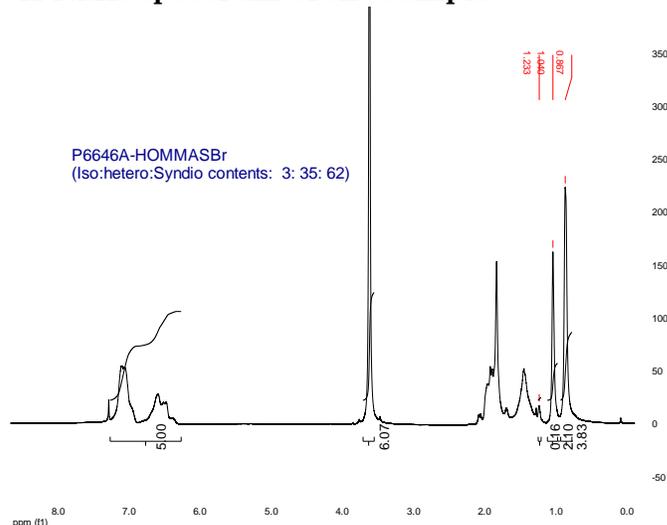
Polymer is obtained by controlled radical process using different ligand system. The scheme of the reaction is illustrated below:



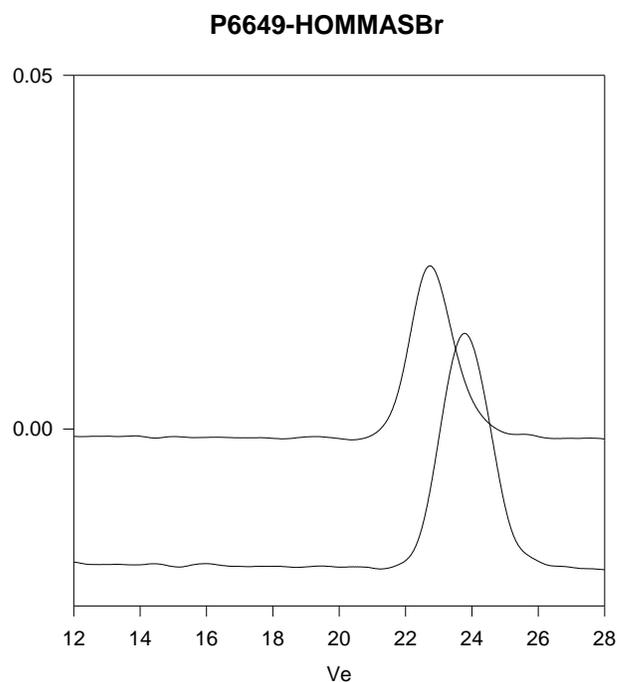
**Characterization:**

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 <sup>1</sup>H-NMR spectroscopy.

**<sup>1</sup>H NMR spectrum of the sample**



**SEC profile of the block copolymer**



Size Exclusion Chromatography :

- First PMMA block bear terminal Br group M<sub>n</sub>=26000, M<sub>w</sub>/M<sub>n</sub>=1.25
- After reaction with styrene Mn : 26,000-b-32,000 Mw/Mn: 1.3 Composition from HNMR