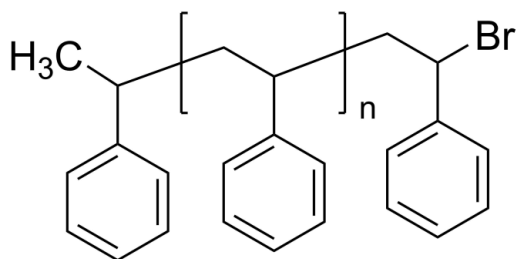


Sample Name: Poly(styrene),  $\omega$ -(secondary)bromo-terminated

Sample #: P13247-SBr

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
6.0	1.3

**Synthesis Procedure:**

Bromo terminated polystyrene was prepared by controlled radical process.

**Characterization:**

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. Polymer functionality was verified by FTIR/H NMR depending on the molecular weights. Furthermore, the quantitative yield of the end functionalization was also proven in the extinction of the polymer in the ATRP process to synthesize different diblock copolymers.

**Solubility:**

Polymer is soluble in THF, CHCl<sub>3</sub> and toluene. It is precipitated out from methanol, ethanol, hexane and ether.

**SEC profile of the Sample:**

**P13247-SBr**

