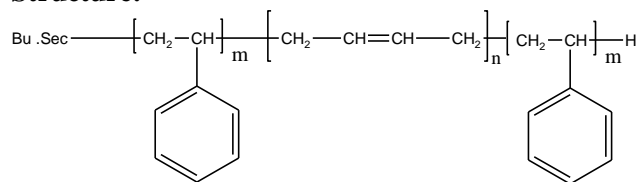


Sample Name:

**Poly (Styrene-b-butadiene-b-Styrene)**  
**Poly butadiene rich in 1,4 microstructure**

Sample #: **P8361-SBdS**

**Structure:**

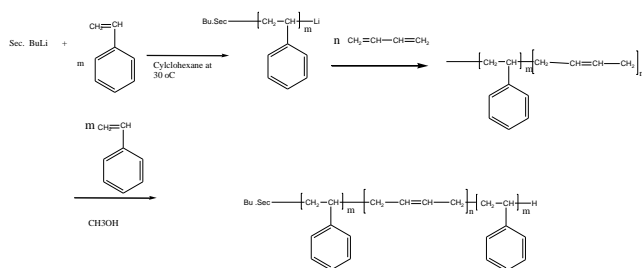


**Composition:**

$M_n \times 10^3$ (S-b-Bd-b-S)	PDI
13.0-b-9.5-b-13.0	1.07

**Synthesis Procedure:**

Poly (styrene -b- butadiene -b- styrene) is prepared by living anionic polymerization with sequence addition of styrene followed by butadiene and then styrene again. The scheme of the reaction is illustrated below:



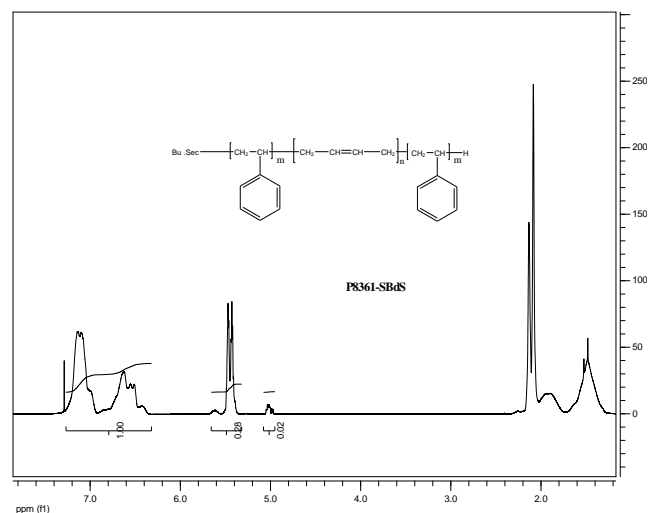
**Characterization:**

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.

**Solubility:**

Polymer is soluble in THF, toluene and  $\text{CHCl}_3$ . It precipitates from methanol, ethanol, water and hexanes (depending on the compositions).

**$^1\text{H}$ NMR Spectrum of the Polymer:**



**SEC of Sample:**

**P8361-SBdS**

