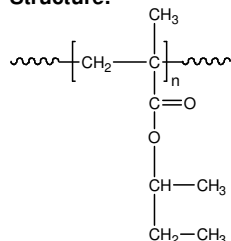


Sample Name: **Poly(s-butyl methacrylate)**

Sample #: **P2431-sBuMA**

**Structure:**

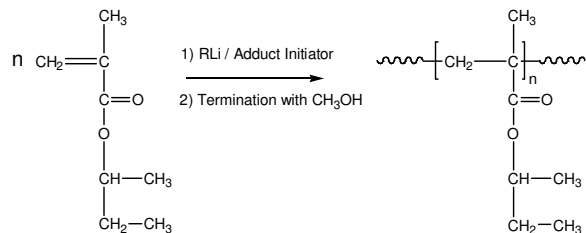


**Composition:**

Mn x 10 <sup>3</sup>	PDI
50.0	1.80

**Synthesis Procedure:**

Poly(s-butyl methacrylate) is obtained by living anionic polymerization of s-butyl methacrylate. The reaction scheme used for the polymer synthesis is shown below:



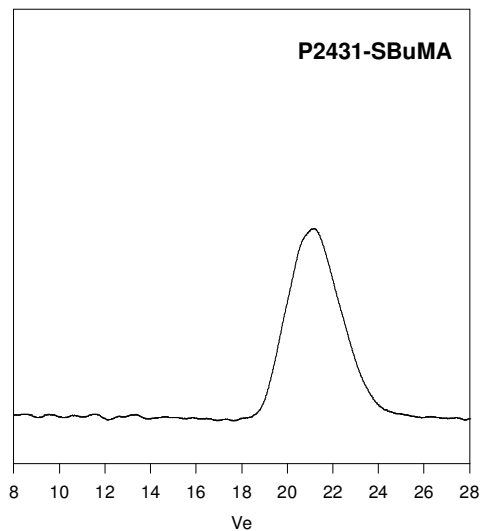
**Characterization:**

The molecular weight and polydispersity index (PDI) of Poly(s-butyl methacrylate) are obtained by size exclusion chromatography.

**Solubility:**

Poly(s-butyl methacrylate) is soluble in THF, CHCl<sub>3</sub>, toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

**SEC of Homopolymer:**



Size Exclusion Chromatography of Poly(Sec-butyl methacrylate):

$M_n = 50,000$ ,  $M_w = 90,000$   $PI = 1.8$