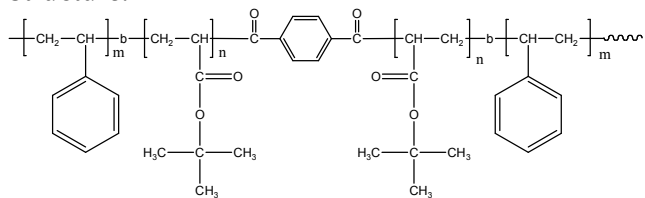


Sample Name:

Poly(Styrene-b-tert butyl acrylate-b-Styrene)

Sample #: **P11151-StBuAS**

Structure:

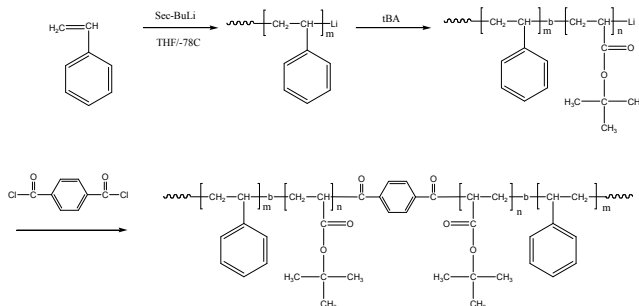


Composition:

Mn x 10 ³ (S-b-tBuA-S)	PDI
5.0-b-80.0-b-5.0	1.28

Synthesis Procedure:

Poly(styrene -b- tert.butylacrylate -b- styrene) is prepared by living anionic polymerization. The details are reported in the reference. The scheme of the reaction is illustrated below:



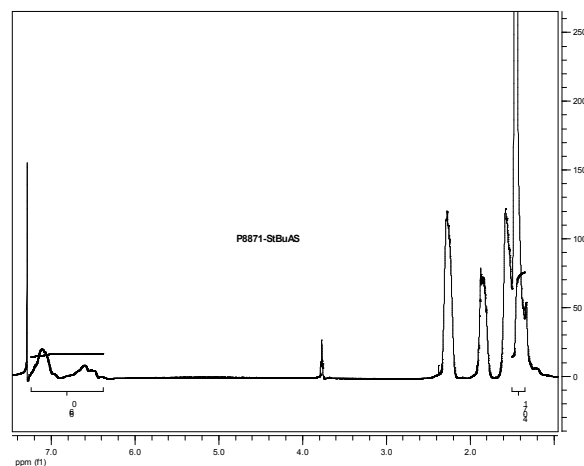
Characterization:

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:

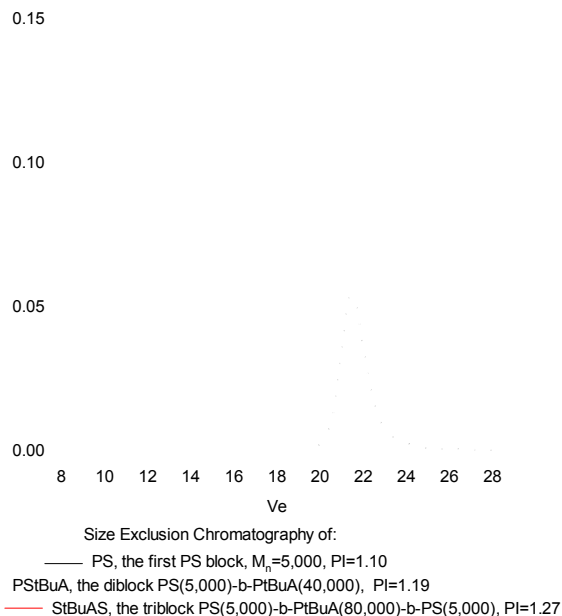
Polymer is soluble in THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water and hexanes (depending on the compositions).

¹H NMR of the Polymer:



SEC of Sample:

P11151-StBuAS



Reference:

1. S.K. Varshney, P. Kesani, N. Agarwal, J. Xin. Zhang, and M. Rafailovich "Synthesis of ABA type thermoplastic elastomers based on Polyacrylates", Macromolecules, 1999, 32, 235.