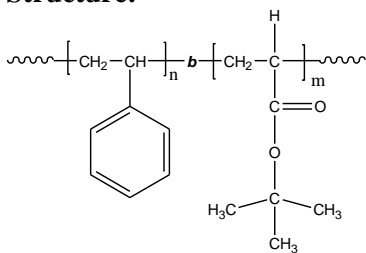


Sample Name: Poly (styrene-b- tert.butylacrylate)

Sample #: P42335-StBuA

Structure:



Composition:

Mn x 10 ³ S-b-tBuA	PDI
4.5-b-30.0	1.04

Synthesis Procedure:

Poly(styrene-b-tert.butyl acrylate) is prepared by living anionic polymerization in THF at -78 °C using sec.BuLi initiator adduct with α -methyl styrene in the presence of LiCl. For further details please see our published articles.¹⁻³

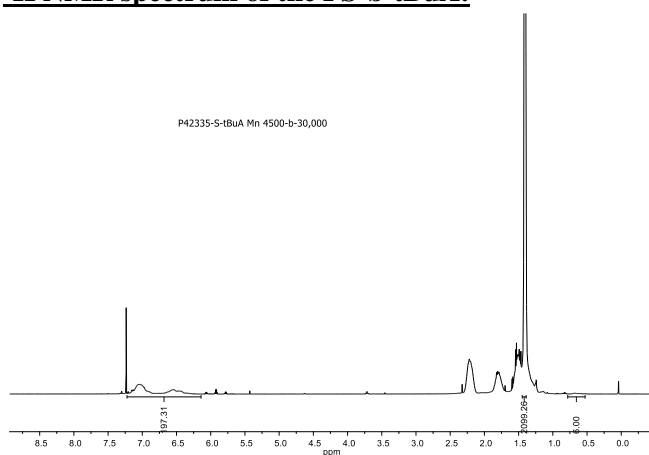
Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹H NMR analysis.

Solubility:

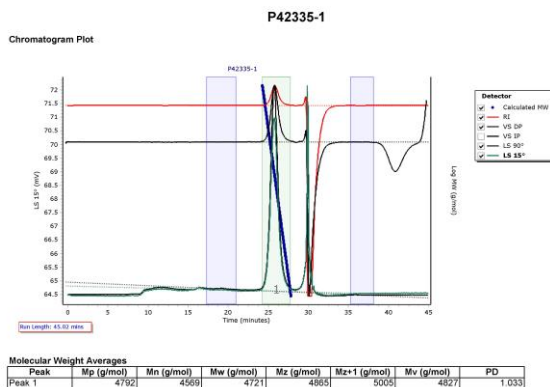
Poly (styrene-b-tert.butylacrylate) is soluble in THF, toluene, dioxane and CHCl₃.

¹H NMR spectrum of the PS-b-tBuA:



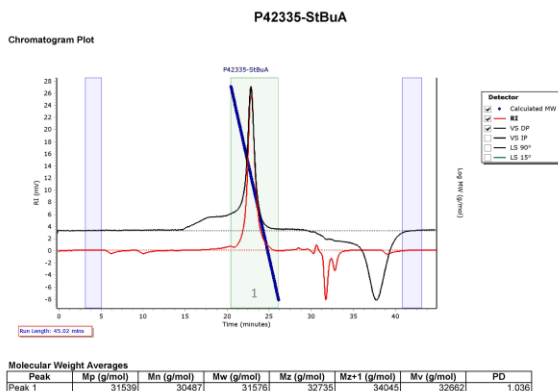
SEC elugram of the first (PS) block:

Agilent GPC/SEC Software



SEC elugram of the product (diblock copolymer):

Agilent GPC/SEC Software



References for further information:

1. S. K. Varshney, R. Fayt, Ph. Teyssie, and J.P. Hautekeer US Patent 5,264,527 (1993)
2. Ph. Teyssie, R. Fayt, S. K. Varshney, and C. Jacobs Eur. Pat. Appl., Jan 16, 1991 Eur.Pat.408420
Patent Assignees- Atochem S.A France. CA. Vol 114, 26, 247998." Star Block Copolymers based on Acrylates and Methacrylates and their Manufacture process".
3. Ph.Teyssie, R. Fayt, and S. K. Varshney, Eur. Pat. Appl. Dec. 12, 1990. Eur. Pat.402204
Patent Assignees-Norsolor S.A. France. CA Vol 114, 20, 186314."Catalyst for the the Anionic Living Polymerization (Meth)acrylates".