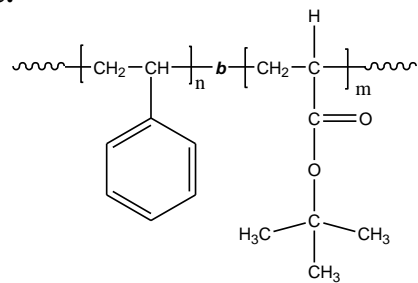


Sample Name: Poly (styrene-b- tert.butyl acrylate)

Sample #: P40286-StBuA

Structure:



Composition:

Mn x 10 ³ S-b-tBuA	PDI
67.0-b-32.0	1.04

Synthesis Procedure:

The polymer was synthesized by anionic process.

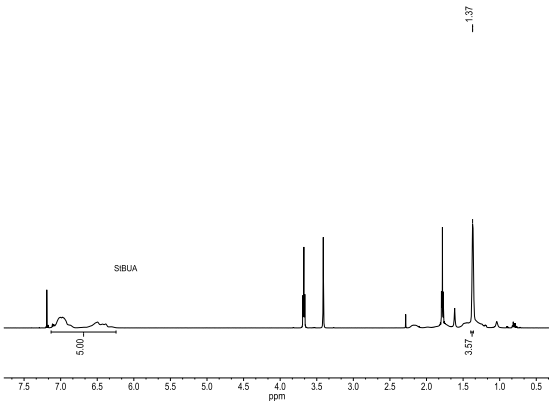
Characterization:

The polymer was characterized by ¹H NMR, SEC, and FTIR.

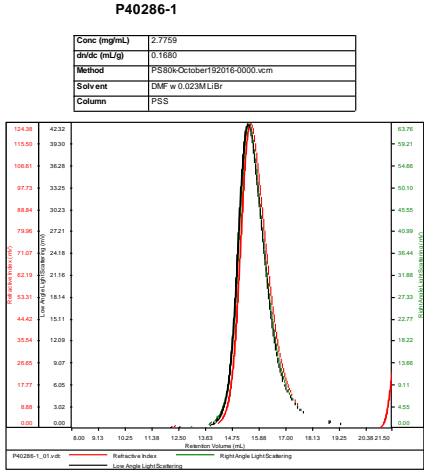
Solubility:

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

¹H NMR (500 MHz, CDCl₃):

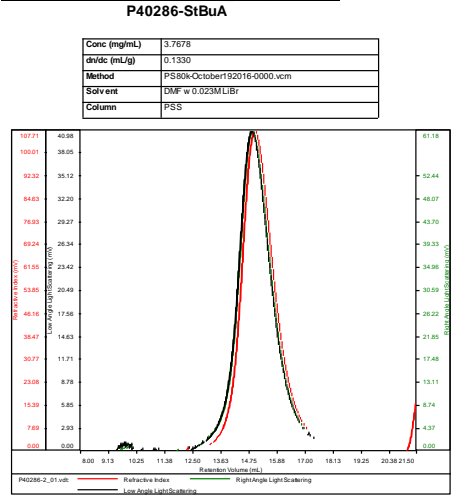


SEC of polystyrene block:



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40286-1_01.vdt	67,353	68,180	70,419	1.012	0.2516

SEC of diblock copolymer:



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40286-2_01.vdt	98,866	102,854	99,233	1.040	0.4300

References:

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".