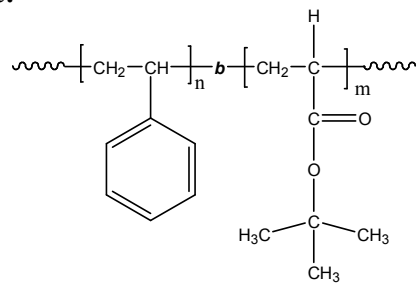


Sample Name: Poly (styrene-b- tert.butyl acrylate)

Sample #: P40281-StBuA

Structure:



Composition:

Mn x 10 ³ S-b-tBuA	PDI
32.0-b-0.5	1.04

Synthesis Procedure:

The polymer was synthesized by anionic process.

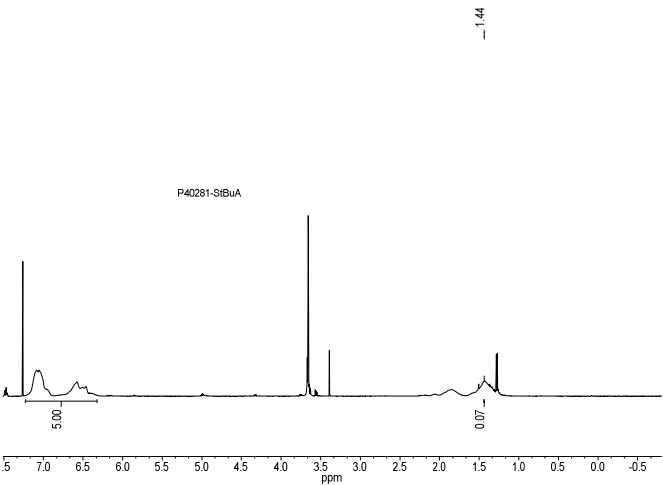
Characterization:

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

Solubility:

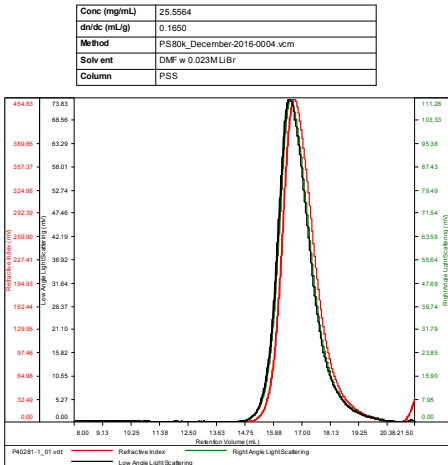
Poly (styrene-b-tert.butylacrylate) is soluble in THF, toluene, dioxane and CHCl₃.

¹H NMR (500 MHz, CDCl₃):



SEC of polystyrene block:

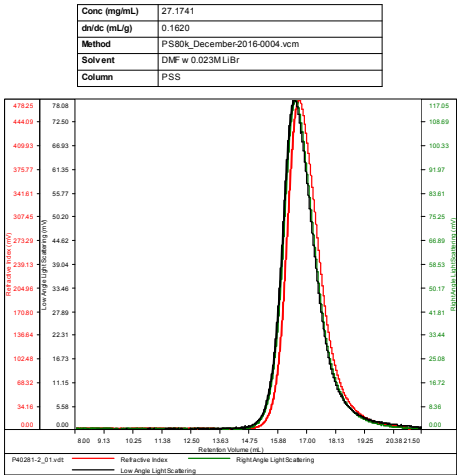
P40281-S



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40281-1_01.vdt	32.223	33.526	32.148	1.040	0.0877

SEC of diblock copolymer:

P40281-StBuA



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40281-2_01.vdt	32.827	34.171	32.722	1.041	0.0850

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".