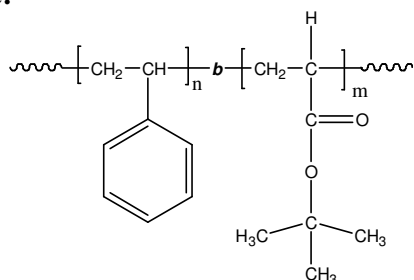


Sample Name: Poly (styrene-b- tert.butyl acrylate)

Sample #: P19511A-StBuA

Structure:



Composition:

Mn x 10 ³ S-b-tBuA	PDI
3.0-b-18.0	1.4

Synthesis Procedure:

The polymer was synthesized by anionic process.

Characterization:

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

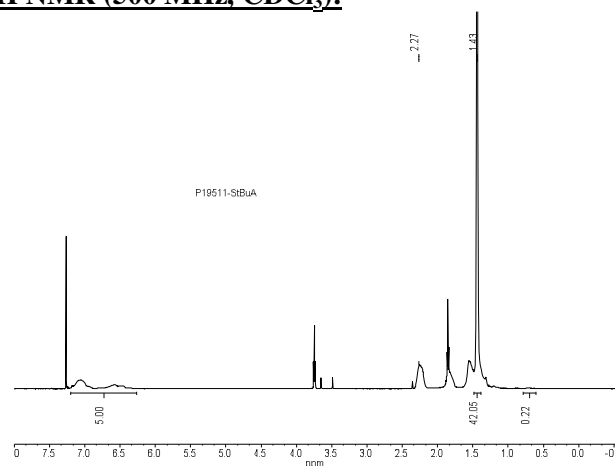
Solubility:

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

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".

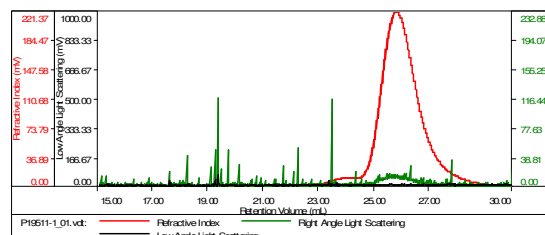
¹H NMR (500 MHz, CDCl₃):



SEC of polystyrene block:

Sample ID: P19511-S first block

Concentration (mg/mL)	1.7257
Sample chdc (mL/g)	0.1850
Method File	PS80K-June30-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

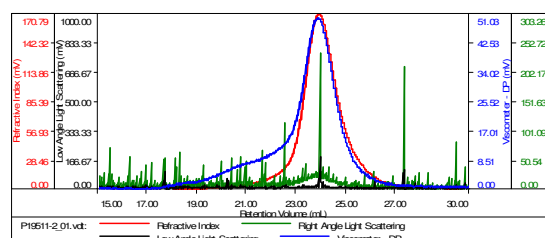


Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19511-1_01.vcl	3,484	3,690	3,536	1.056	0.3099

SEC of diblock copolymer:

Sample ID: P19511-StBuA

Concentration (mg/mL)	3.1920
Sample chdc (mL/g)	0.0880
Method File	PS80K-June30-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19511-2_01.vcl	19,367	27,356	16,264	1.413	0.8571