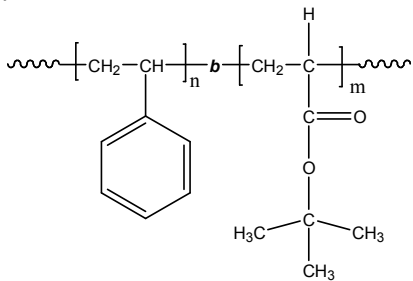


Sample Name: Poly (styrene-b- tert.butyl acrylate)

Sample #: P40284-StBuA

Structure:



Composition:

Mn x 10 <sup>3</sup> S-b-tBuA	PDI
95.0-b-39.0	1.04

Synthesis Procedure:

The polymer was synthesized by anionic process.

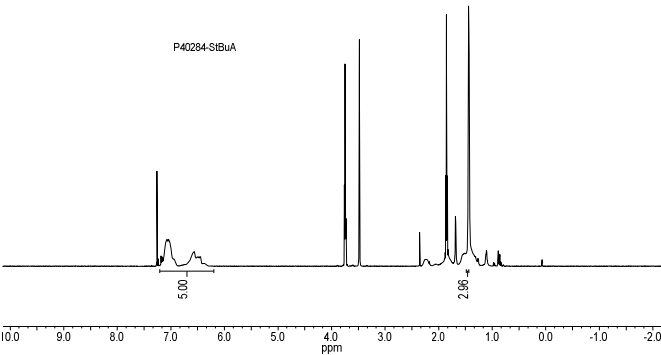
Characterization:

The polymer was characterized by <sup>1</sup>H NMR, SEC, and FTIR.

Solubility:

Poly (styrene-b-tert.butylacrylate) is soluble in THF, toluene, dioxane and CHCl<sub>3</sub>.

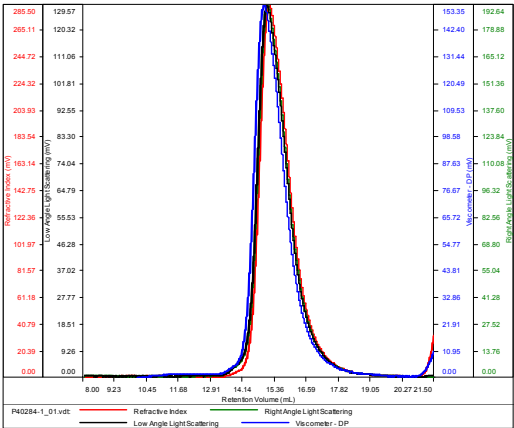
<sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>):



SEC of polystyrene block:

P40284-S

Conc (mg/mL)	7.0238
dn/dc (mL/g)	0.1650
Method	PS80k-October192016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS

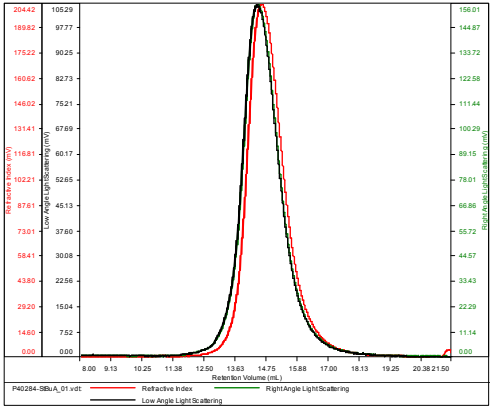


Sample	Mn	Mw	Mp	Mw/Mn	IV
P40284-1_01.vdt	95,123	97,642	95,709	1.026	0.3396

SEC of diblock copolymer:

P40284-StBuA

Conc (mg/mL)	14.9609
dn/dc (mL/g)	0.1320
Method	PS80k-December2016-0004.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40284-StBuA_01.vdt	133,962	139,508	131,933	1.041	0.2414

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".