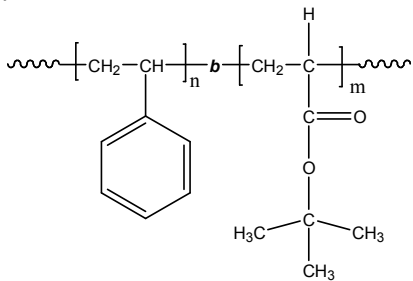


Sample Name: Poly (styrene-b- tert.butyl acrylate)

Sample #: P40279-StBuA

Structure:



Composition:

Mn x 10 ³ S-b-tBuA	PDI
64.0-b-5.0	1.03

Synthesis Procedure:

The polymer was synthesized by anionic process.

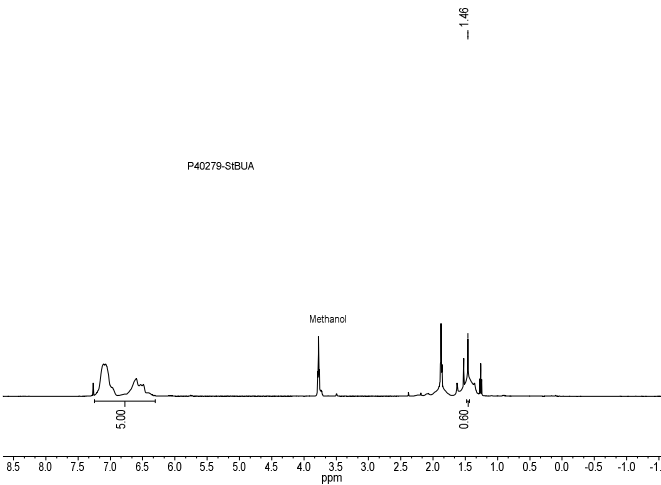
Characterization:

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

Solubility:

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

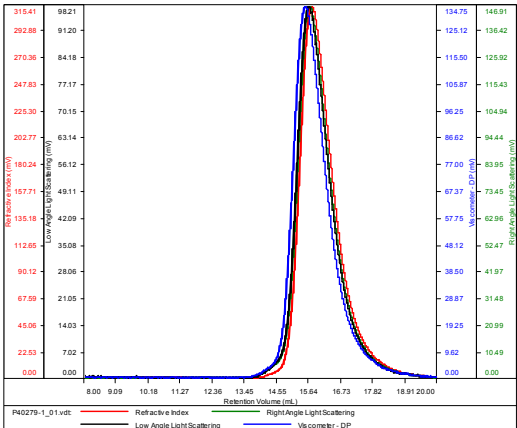
¹H NMR (500 MHz, CDCl₃):



SEC of polystyrene block:

P40279-1

Conc (mg/mL)	7.6971
dn/dc (mL/g)	0.1650
Method	PS80k-October192016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS

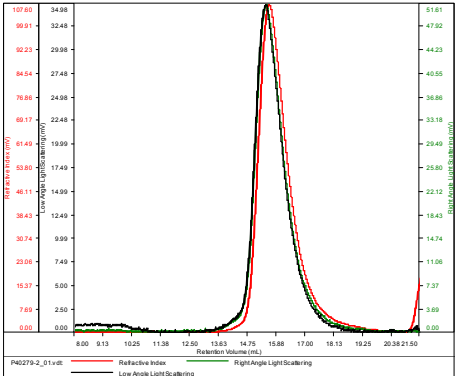


Sample	Mn	Mw	Mp	Mw/Mn	IV
P40279-1_01.vdt	64,128	66,389	65,656	1.035	0.2688

SEC of diblock copolymer:

P40279-StBuA

Conc (mg/mL)	5.9050
dn/dc (mL/g)	0.1540
Method	PS80k-December2016-0004.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40279-2_01.vdt	68,848	72,003	70,257	1.046	0.1203

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".