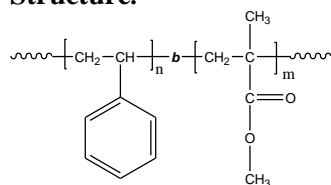


Sample Name: Poly (styrene-b-methyl methacrylate)

Sample #: P18253-SMMA

Structure:



Composition:

Mn x 10 ³ S-b-MMA	PDI
616.0-b-25.5	1.10
Microstructure for PMMA block	S:H 50:50

Synthesis Procedure:

The diblock copolymer was prepared by anionic polymerization.

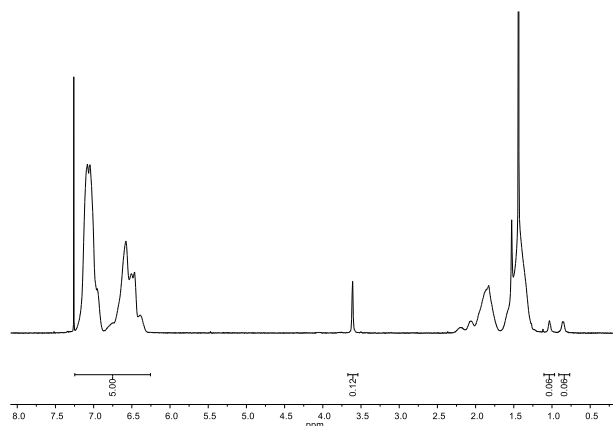
Characterization:

The product was characterized by size exclusion chromatography (SEC), and ¹H NMR.

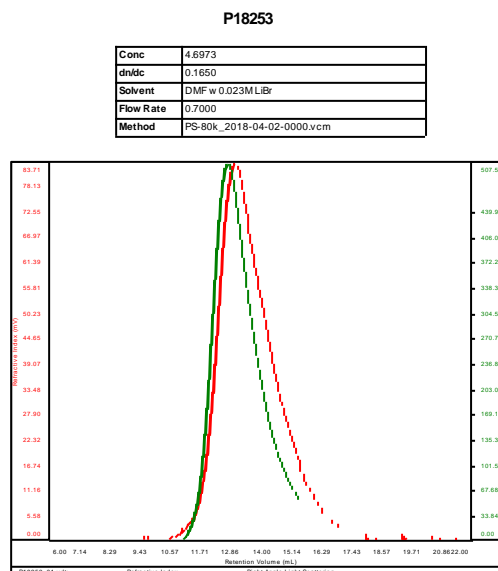
Solubility:

Poly (styrene-b-methyl methacrylate) is soluble in THF, toluene, dioxane and CHCl₃. This polymer readily precipitates from methanol, ethanol, hexanes.

¹H-NMR Spectrum of the Polymer:



SEC elugram of the Sample:



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18253_01.vdt	641,553	700,239	768,107	1.091	1.0663

References for further information:

1. S. K. Varshney, R. Fayt, Ph. Teyssie, and J.P. Hautekeer US Patent 5,264,527 (1993)
2. Ph. Teyssie, R. Fayt, J. P. Hautekeer, C. Jacobs, R. Jerome, L. Leemans and S. K. Varshney *Makromolekular Chemie, Macromol. Symp.*, 1990, 32,61-73.
3. S. K. Varshney, J. P. Hautekeer, R. Fayt, R. Jerome, and Ph.Teyssie *Macromolecules*, 1990, 23, 2618-2622.