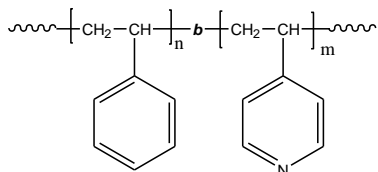


Sample Name: Poly(styrene-b-4-vinyl pyridine)

Sample #: P40766-S4VP

Structure:



Composition:

$M_n \times 10^3$ PS-b-4VP	PDI
12.0-b-17.0	1.09
T_g for PS block: 105°C	T_g for 4VP block: 133°C

Synthesis Procedure:

The polymer was synthesized by anionic polymerization process.

Characterization:

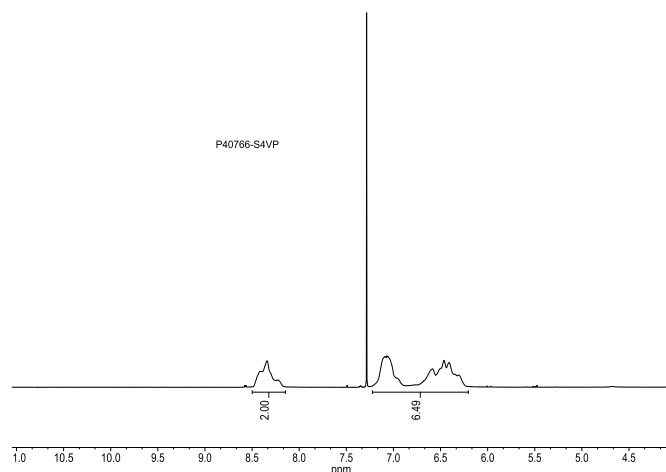
The polymer was characterized by SEC and ^1H NMR. The composition of the block copolymer can also be determined by titration in acetic acid/ HClO_4 using crystal violet indicator. Copolymer PDI is determined by SEC.

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 15°C/min. The inflection glass transition temperature (T_g) of the sample has been considered.

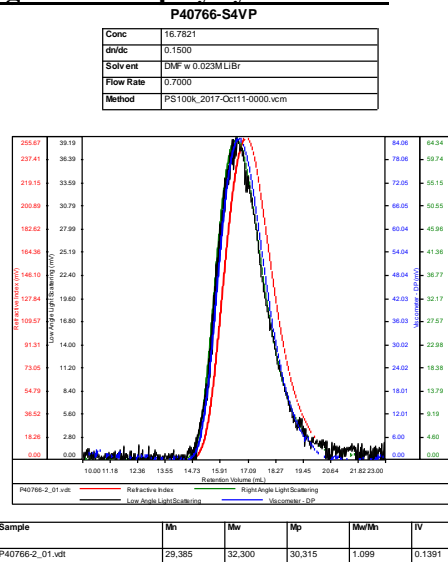
Solubility:

Poly(styrene-b-4-vinyl pyridine) is soluble in CHCl_3 DMF.

^1H NMR spectrum of the polymer:



SEC elugram of the polystyrene block:



SEC elugram of the diblock polymer:

References:

- (1). S. K. Varshney, X. F. Zhong & A. Eisenberg *Macromolecules*, **1993**, 26, 701-706.
- (2). Z.Gao, S. K. Varshney, S. Wong, A. Eisenberg *Macromolecules*, **1994**, 27, 7923-7927.