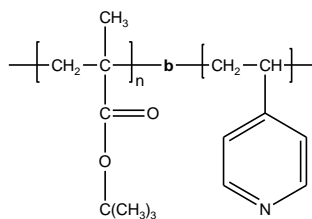


Sample Name: Poly (t-butyl methacrylate-b-4-vinyl pyridine)

Sample #: P41836-tBuMA4VP

Structure:



Composition:

Mn × 10 ³ tBuMA-4VP	PDI
82.5-b-6.0	1.15
T _g for tBuMA block	127 °C
T _g for 4VP block	152 °C

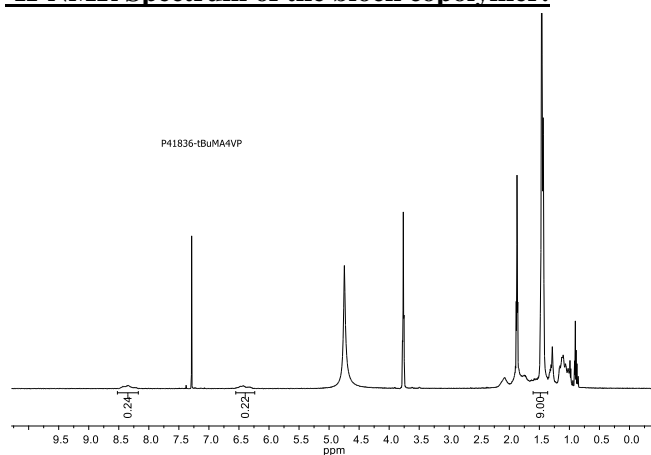
Synthesis Procedure:

Poly(t-butyl methacrylate-b-4-vinyl pyridine) is synthesized by anionic polymerization process.

Characterization:

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

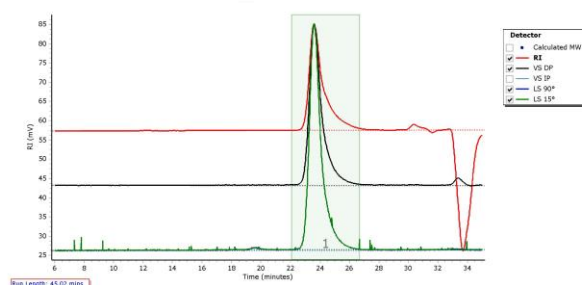
¹H-NMR Spectrum of the block copolymer:



SEC elugram of the first Block:

Agilent GPC/SEC Software

Chromatogram Plot



Molecular Weight Averages

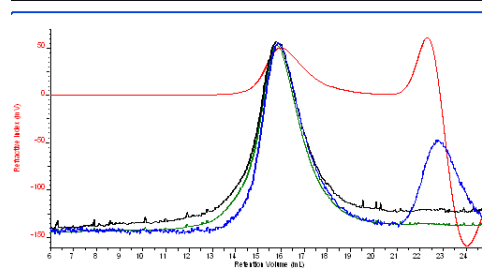
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
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Peak 1	99867	82538	88678	93417	97114	92815	1.074
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SEC elugram of the polymer:

P41836-tBuMA-4VP

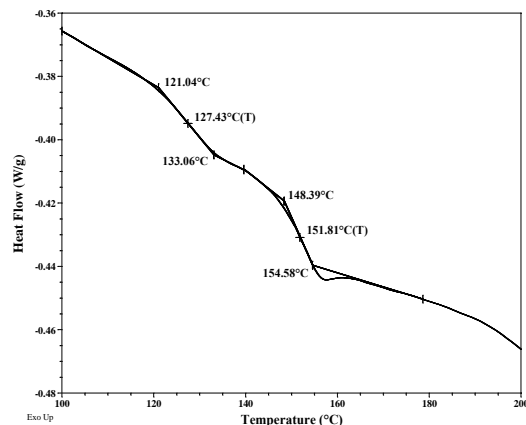
dn/dc	0.0420
Flow Rate	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA60K-Jan3-2019-0002.vcm



Sample	Mn	Mw	Mz	IV	Mw/Mn
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-	88,836	102,488	153,736	0.1605	1.154
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DSC Thermogram of the polymer



Reference:

S. K. Varshney, X. F. Zhong and A. Eisenberg
Macromolecules, 1993, 26, 701-706.