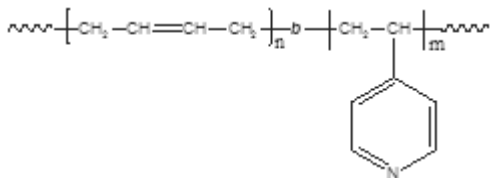


Sample Name:

Poly(1,4-butadiene-b-4-vinyl pyridine)

Sample #: **P18939-Bd4VP**

Structure:



Composition:

Mn x 10 ³ Bd-b-4VP	Mw/Mn (PDI)
222.0-b-10.0	1.15
T _g for Bd block: -72°C	T _g for 4VP block: 83°C

Synthesis procedure:

Poly(1,4-butadiene-b-4-vinyl pyridine) was prepared by living anionic polymerization with sequence addition of butadiene followed by 4-vinylpyridine.

Characterization:

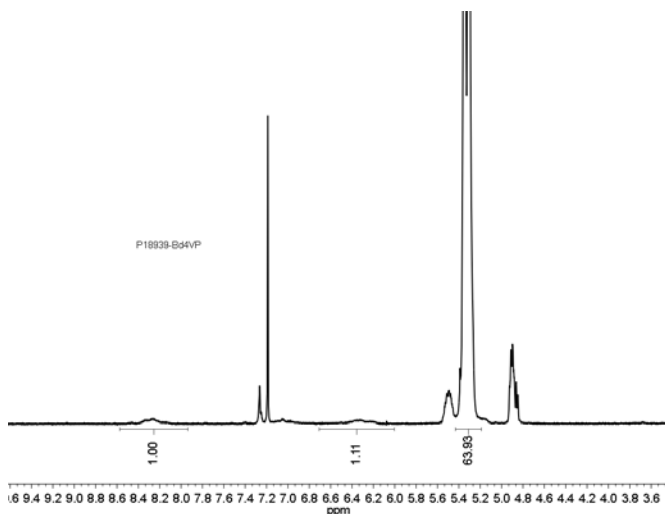
The polymer was characterized by SEC and ¹H NMR.

Thermal Analysis:

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) of the sample has been considered.

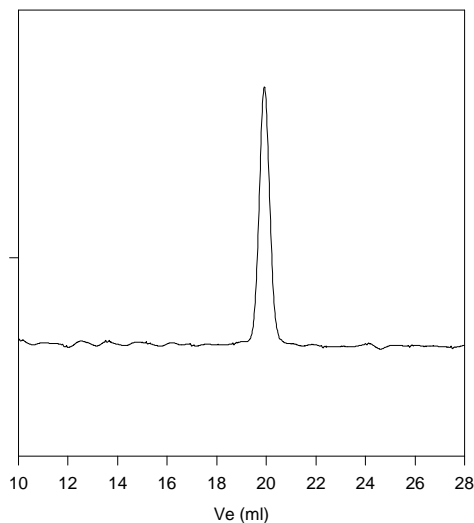
Solubility:

Poly(1,4-butadiene-b-4-vinyl pyridine) is soluble in THF, chloroform and toluene.



SEC elugram:

P18939-Bd4VP



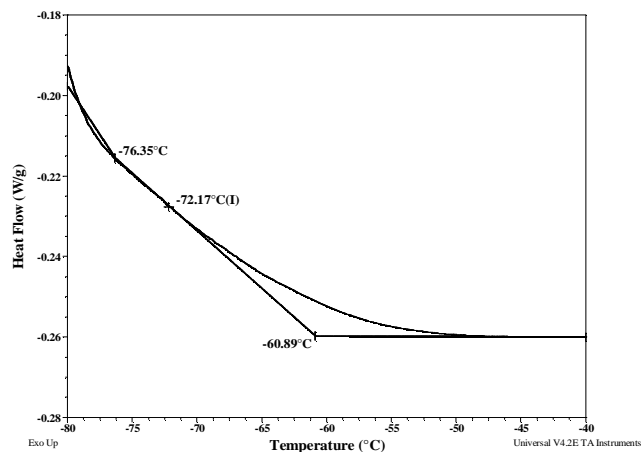
Size exclusion chromatography of polybutadiene before adding 4VP monomer:

From Light Scattering M_n=222,000 M_w=255,000, M_w/M_n=1.15

4VP contents by titration: Pbd-4VP

Mn: 223,000-b-10000

DSC thermogram for Bd block:



Thermogram for 4VP block:

