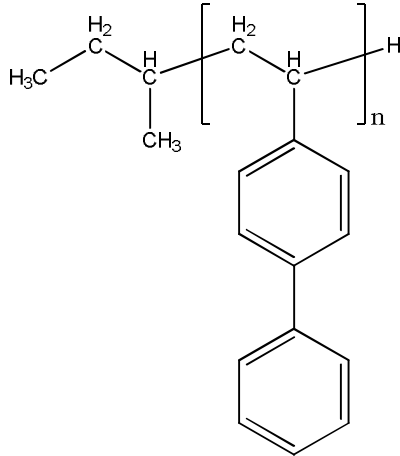


Sample Name: Poly(4-vinyl biphenyl)

Sample #: P19850-4VBP

CAS# 25232-08-0

Structure:



Composition:

Mn x 10 ³	PDI
30.0	1.4
Tg °C	135 °C

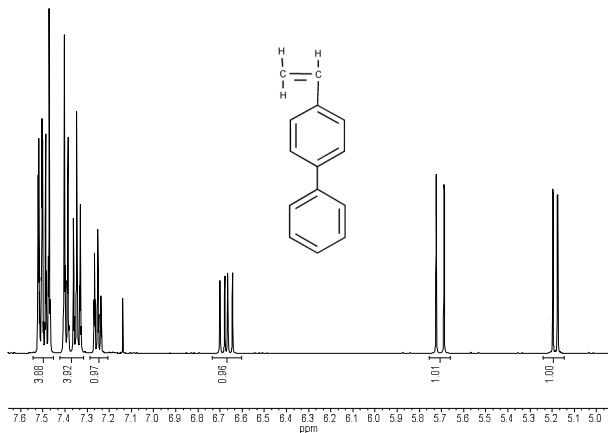
Synthesis procedure:

The polymer was synthesized by anionic process.

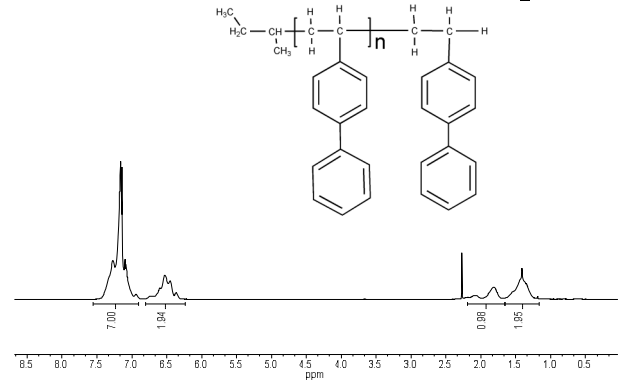
Solubility:

The polymer is soluble in THF, CHCl₃, toluene.

¹H NMR spectrum of the monomer in CDCl₃:



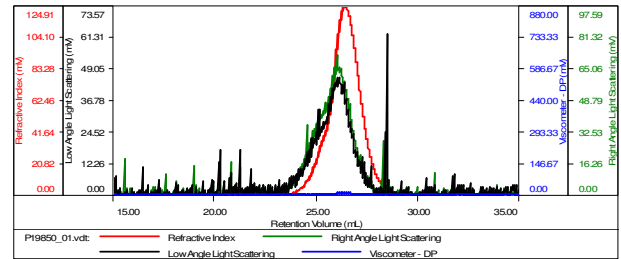
¹H NMR spectrum of the polymer in CDCl₃:



SEC elugram of the polymer:

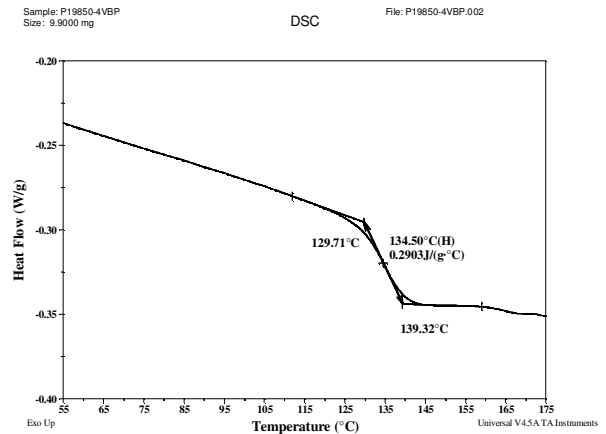
Sample ID: P19850-4 Vinyl Biphenyl

Concentration (mg/mL)	2.8017
Sample dn/dc (mL/g)	0.1850
Method File	PS30K-April-18-2016-0001.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Phi (nm)	Flat Vol (mL)
P19850_01.vcl	29,789	42,105	1.413	0.2571	6.89	26.375

DSC thermogram of the polymer:



DSC data for 4VBP polymers:

Molecular weight (Mn)	Glass transition (Tg)
9.5 × 10 ³	105 °C
30.0 × 10 ³	135 °C
75.5 × 10 ³	141 °C
530.0 × 10 ³	151 °C