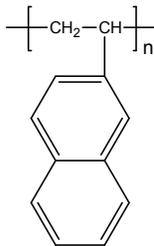


Sample Name: Poly(2-vinyl naphthalene)

Sample #: P11050A-2VN

Structure:

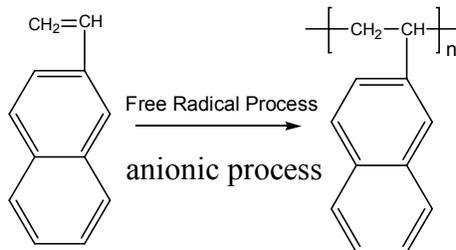


Composition:

Mn x 10 ³	PDI
312.0	1.33
Mn x 10 ³ With respect to Polystyrene	
210.0	

Synthesis Procedure:

Poly(2-vinyl naphthalene) is synthesized by free radical or anionic living polymerization 2-vinyl naphthalene and the reaction scheme is below.



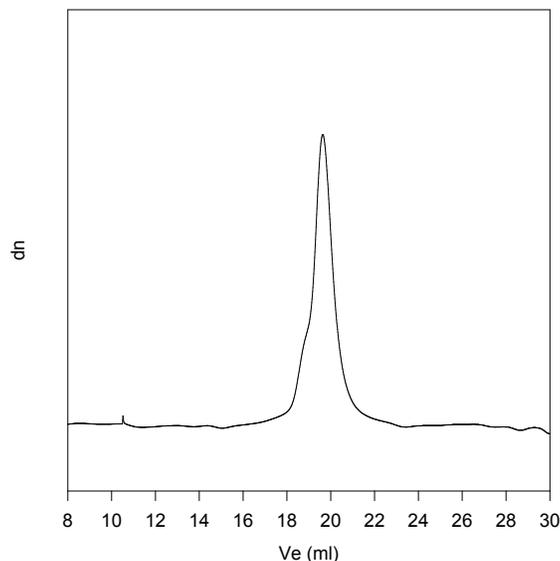
Characterization: The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

For the details of the analysis please read the following our publication:

Faquan Zeng, Mu Yang, Jianxin Zhang, **Sunil K. Varshney**, "Synthesis and characterization of block copolymers from 2-vinylnaphthalene by anionic polymerization" J. of Polymer Science, Journal of Polymer Science Part A: Polymer Chemistry, 40, 24, 4387-4397 2002.

SEC of Homopolymer:

P11050A-2VN



Size Exclusion Chromatography of Poly(2-Vinylnaphthalene)
M_n=312,000, M_w=412,000, PI=1.33

Sample ID: P11050A-2VN

Concentration (mg/mL)	2.4655
Sample dn/dc (mL/g)	0.2300
Method File	PS80K-aug-0002.vcm
Column Set	3xPL 1113-6300
System	System 1

Sample	Mn (Da)	Mw(Da)	Mp (Da)	Mw/Mn	IV (dL/g)
P11050A-2VN_2012-09-04_12:42:02_01.vct	311,163	411,785	295,032	1.323	0.8391

