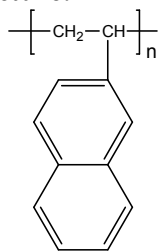


Sample Name: Poly (2-vinyl naphthalene)

Sample #: P40334A-2VN

**Structure:**



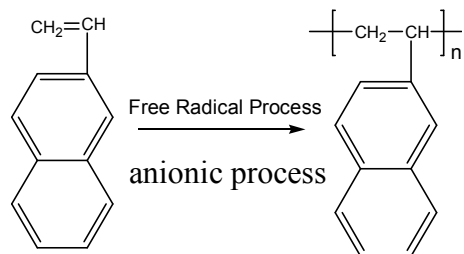
**Composition:**

Mn x 10 <sup>3</sup>	PDI
64.5	1.7

**Synthesis Procedure:**

Poly (2-vinyl naphthalene) is synthesized by free radical or anionic living polymerization of 2-vinyl naphthalene.

The reaction scheme is as below:



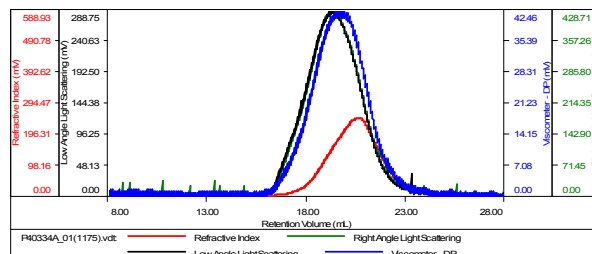
**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) using THF as an eluent. 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.

**SEC elugram of Homopolymer:**

**P40334A-2VN**

Concentration (mg/mL)	8.3630
Sample dn/dc (mL/g)	0.2300
Method File	PS80K-Nb/2016-6-0000.vom
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40334A_01(1175).vd	64,689	113,812	1.759	0.4240	65,826

**For the details of the analysis please read our following 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.