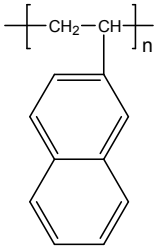
Sample Name: **Poly (2-vinyl naphthalene)**

Sample #: **P40331-2VN**

Structure:



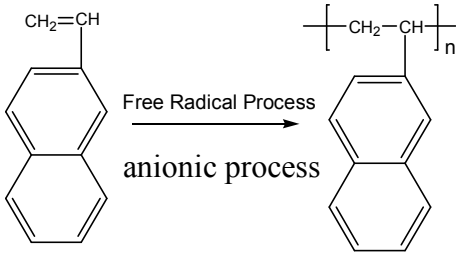
Composition:

Mn x 10^3	PDI
195.5	1.11

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:



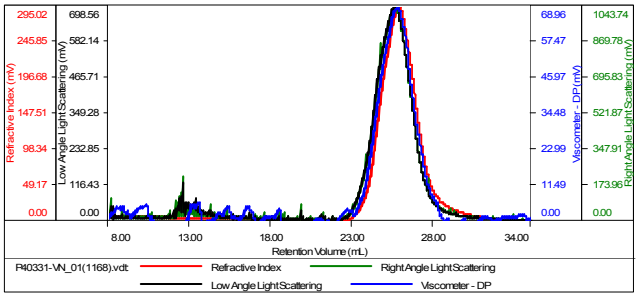
Characterization:

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:

P40331-VN

Concentration (mg/mL)	8.6411
Sample dn/dc (mL/g)	0.2300
Method File	PS80K-Nov2016-6-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40331-VN_01(1168).	195,798	217,643	1.112	0.6658	210,609

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.