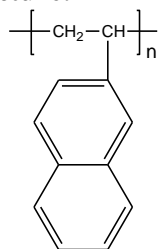


**Sample Name:** Poly (2-vinyl naphthalene)

**Sample #:** P10988F1-2VN

**Structure:**



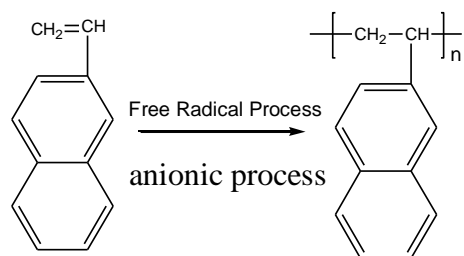
**Composition:**

Mn x 10 <sup>3</sup>	PDI
8.5	2.3

**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:



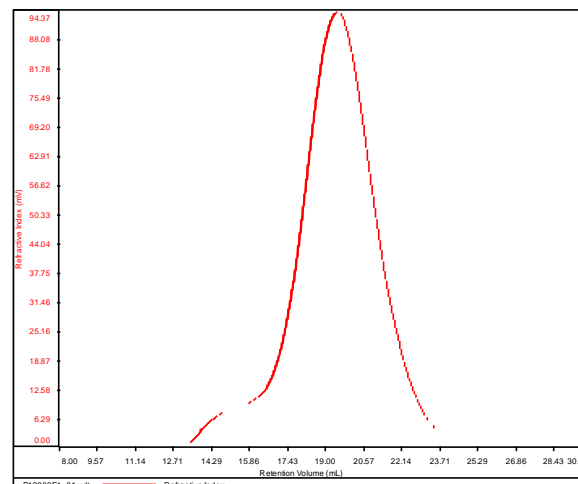
**Characterization:**

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

**SEC elugram of Homopolymer:**

P10988F1-2VN

Conc	7.3730
dn/dc	0.2000
Solvent	DMF w 0.023MLiBr
Flow Rate	0.7000
Method	PS80k_2018-03-09-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P10988F1_01.vdt	8,526	19,590	8,666	2.298	0.0607

**For the details of the analysis please refer to 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.