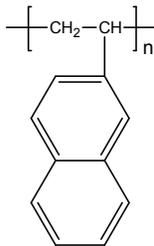


Sample Name: Poly(2-vinyl naphthalene)

Sample #: P11050D-2VN

Structure:

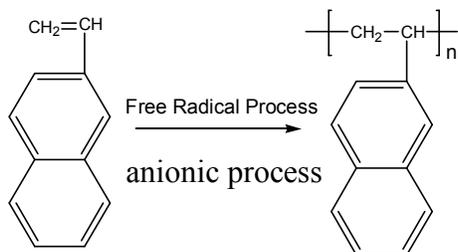


Composition:

Mn x 10 ³	PDI
59.0	1.8
Mn x 10 ³ With respect to Polystyrene	
31.0	

Synthesis Procedure:

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



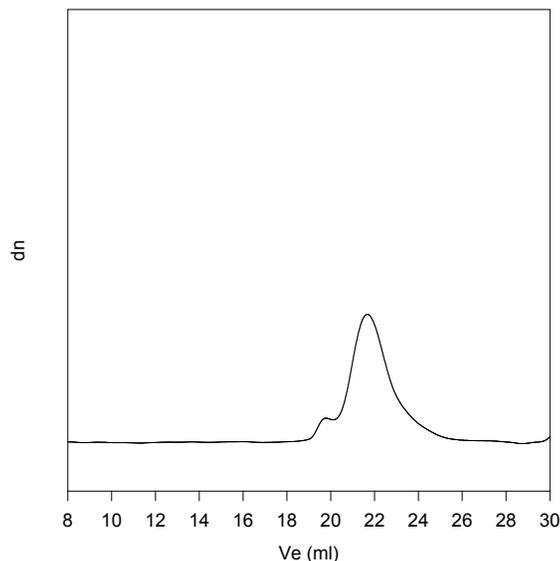
Characterization: The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL)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

P11050D-2VN



Size Exclusion Chromatography of Poly(2-Vinylnaphthalene)
M_n=59,000, M_w=106,000, PI=1.8