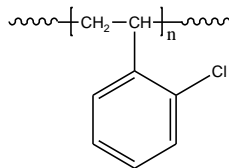


SEC of Homopolymer:

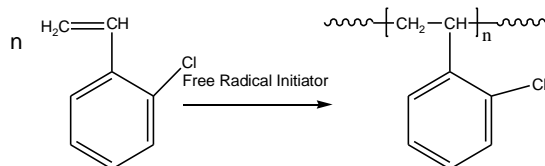
Sample ID: P18347-2cIS

Sample Name: Poly(2-chloro styrene)Sample #: P18347-2CIS**Structure:****Composition:**

Mn x 10 ³	PDI
1.022.00	1.28

Synthesis Procedure:

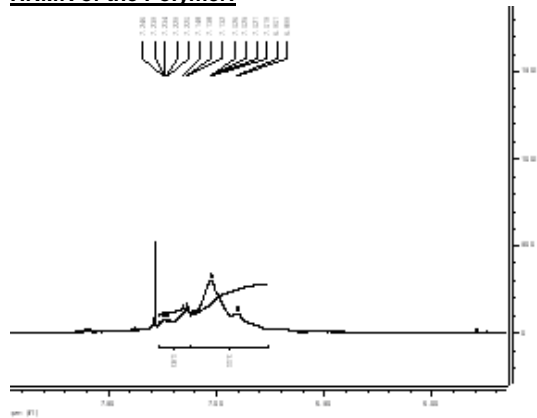
Poly(2-chloro styrene) is synthesized by controlled radical polymerization of 2-chloro styrene and the reaction scheme is shown below.

**Characterization:**

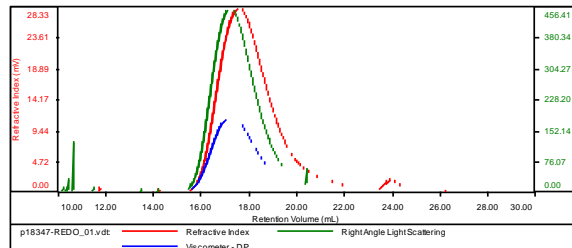
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

Solubility:

Poly(2-chloro styrene) is soluble in DMF, THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water and hexanes.

HNMR of the Polymer:

Concentration (mg/mL)	1.8236
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-NOV/25-2013-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
p18347-REDO_01.vdt	1.022 e 6	1.312 e 6	1.396 e 6	1.283	2.0713

