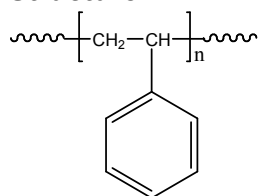


Sample Name: Polystyrene

Sample #: P10486-S

Structure:

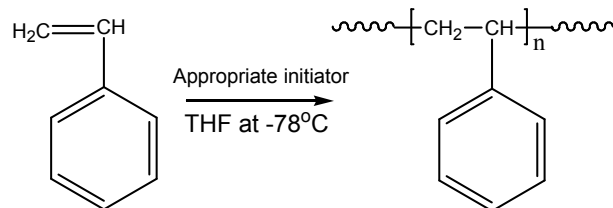


Composition:

$M_n \times 10^{-3}$	M_w/M_n
87.5	1.18

Synthesis Procedure:

Polystyrene is obtained by living anionic polymerization of styrene as illustrated below:



Characterization:

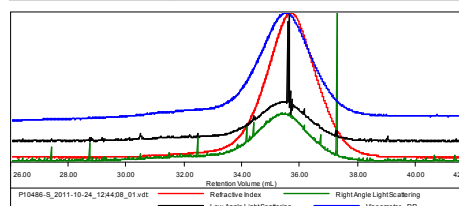
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

Solubility:

Polystyrene is soluble in DMF, THF, toluene and CHCl_3 . It precipitates from methanol, ethanol, water and hexanes.

Sample ID: P10486-S

Concentration (mg/mL)	4.0745
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Oct-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn (Da)	Mw (Da)	Mp (Da)	Mw/Mn	IV (dL/g)
P10486-S_2011-10-24_12:44:08_01.vdt	87,493	102,897	85,728	1.176	0.7472

