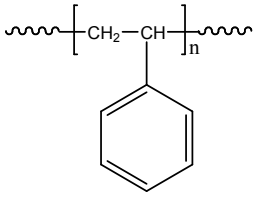
Sample Name: **Polystyrene**

Sample #: **P10485-S**

Structure:

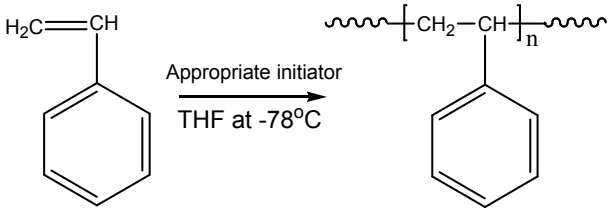


Composition:

Mn x 10^3	PDI
80.5	1.05

Synthesis Procedure:

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



Characterization:

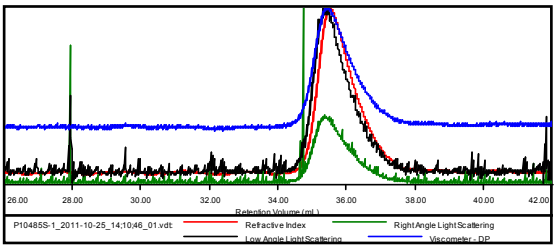
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple 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: P10485S-1

Concentration (mg/mL)	1.0377
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)
P10485S-1_2011-10-25_14;10;46_01.v	80,221	84,970	81,306	1.059	0.6645

