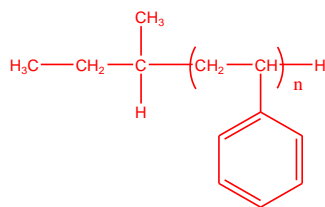


Sample Name: **Polystyrene**

Sample #: **P43160-S**

Structure:



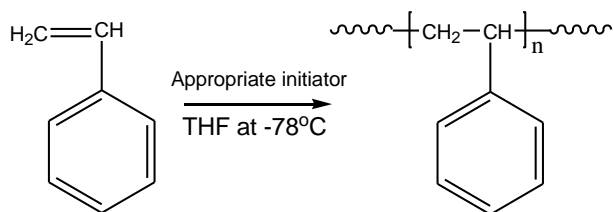
Composition:

$\text{Mn} \times 10^3$	PDI
186.0	1.01

Tg: 84 °C

Synthesis Procedure:

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



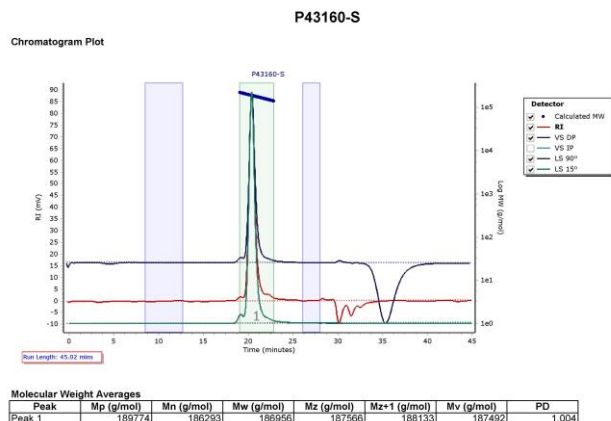
Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatography 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.

SEC elugram of the polymer in THF:



DSC thermogram of the polymer:

Size: 15.3000 mg

