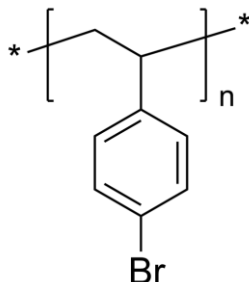


Sample Name: Poly(4-Bromostyrene)

Sample #: P43481A-4BrS

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
71.0	1.4

**Synthesis Procedure:**

Poly 4-Bromostyrene is obtained by anionic polymerization process using tBuok as additive and Monomer diluted with toluene 5:5.

**Characterization:**

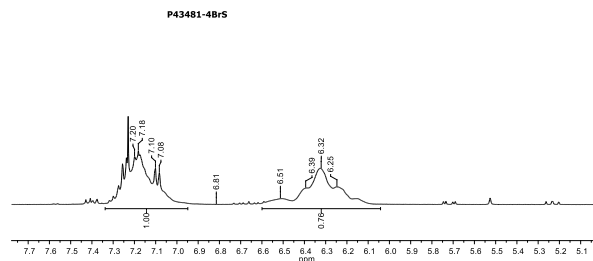
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

Thermal analysis was performed on TA Instruments Q100 differential scanning calorimeter (DSC) under a nitrogen atmosphere. The glass transition temperature ( $T_g$ ) of the product was measured at a scan rate of 10°C/min shortly after creating thermal history of the sample.

**Solubility:**

Polymer is soluble in DMF, THF, toluene and  $\text{CHCl}_3$ . It precipitates from methanol, ethanol, water, and hexanes.

**HNMR spectrum of the polymer:**



**SEC elugram of the Sample:**

