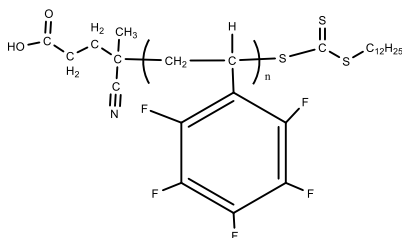


**Sample Name:** Poly pentafluoro styrene

**Sample #:** P44261A-5FS

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
15.0	1.11
$T_g$ ( $^{\circ}\text{C}$ )	100

**Synthesis Procedure:**

Poly Penta fluorostyrene is obtained by RAFT polymerization process.

**Characterization:**

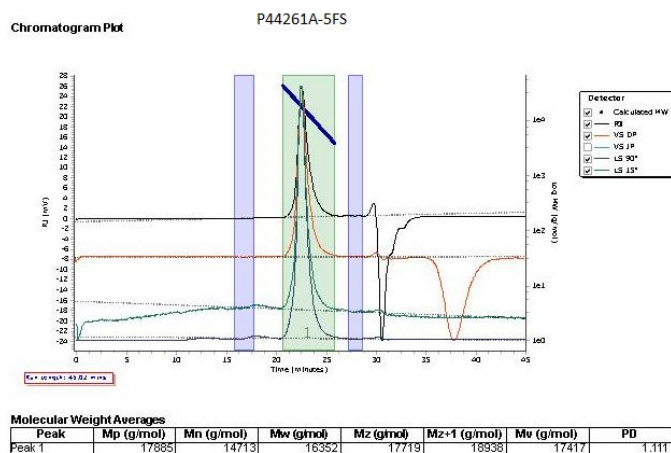
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

Thermal analysis of the sample was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of  $10^{\circ}\text{C}/\text{min}$ . The inflection glass transition temperature ( $T_g$ ) has been considered.

**Solubility:**

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

**SEC of Homopolymer:**



**HNMR spectrum of the Sample:**

