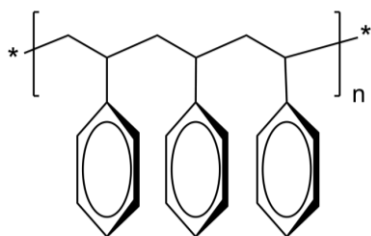


**Sample Name:** Polystyrene-Isotactic

**Sample #:** P42855F-Siso

**Structure:**



**Composition:**

Mn × 103	PDI
74.0	2.1

**Synthesis Procedure:**

The polymer is prepared by anionic polymerization process in Hexane using LiOH as additive. Fractionation with Methyl ethyl ketone to separate iso fractions.

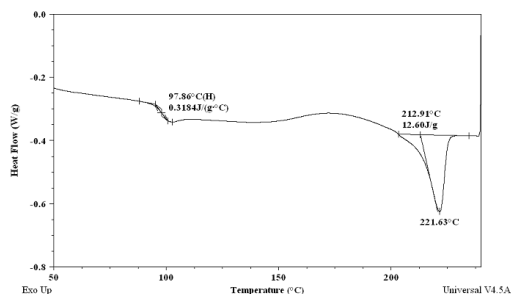
**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF.

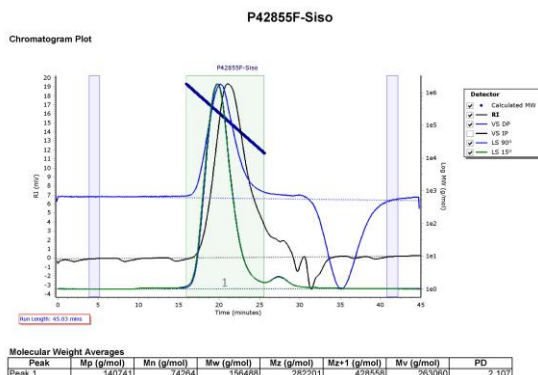
Polymer as such is not soluble in THF or in Toluene. Polymer was annealed at T<sub>g</sub> and cool it to -20 °C rapidly. Polymer now soluble in THF or in Toluene.

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T<sub>g</sub>) has been considered.

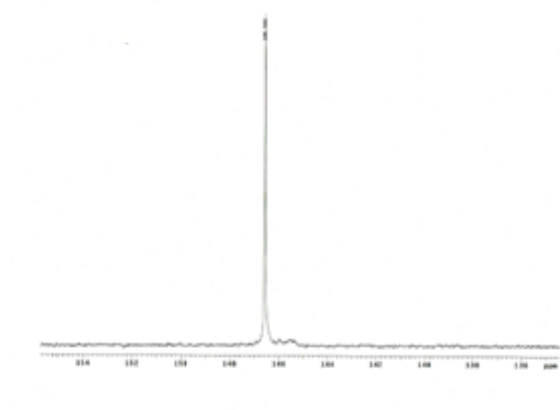
Heating at 10C/min and cooling at 10C/min. This is the 3<sup>rd</sup> cycle of heating at 10C/min  
Sample: P42855 Siso DSC File: C:\TA\Data\IDSC\Homopolymers\SIP42855 -Siso.001



**SEC elugram of Homopolymer:**



**<sup>13</sup>C NMR spectrum of the Sample:**



**DSC thermogram of the product:**

T<sub>g</sub> of polystyrene as function of molecular weight

