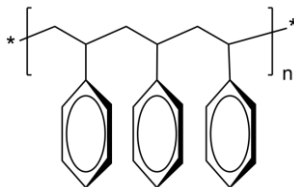


Sample Name: **Polystyrene-Isotactic**

Sample #: **P42855M-Siso**

Structure:



Composition:

Mn $\times 10^3$	PDI
694.0	1.8

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.

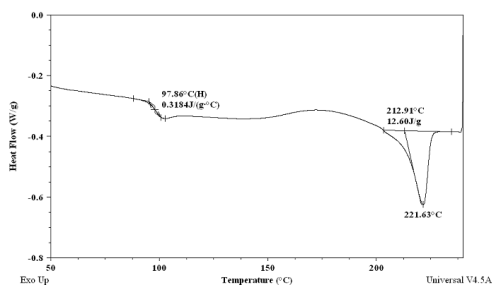
Characterization:

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

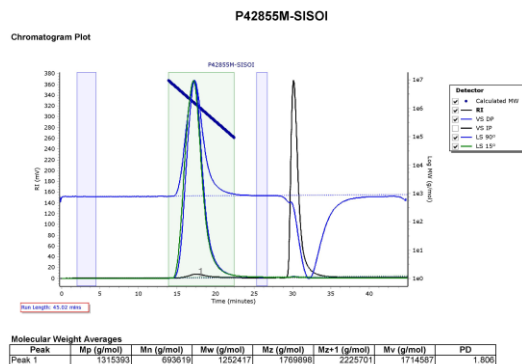
Polymer as such is not soluble in THF or in Toluene. Polymer was annealed at Tg and cool it to -20 oC rapidly. Polymer now soluble in THF or in Toluene.

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_g) has been considered.

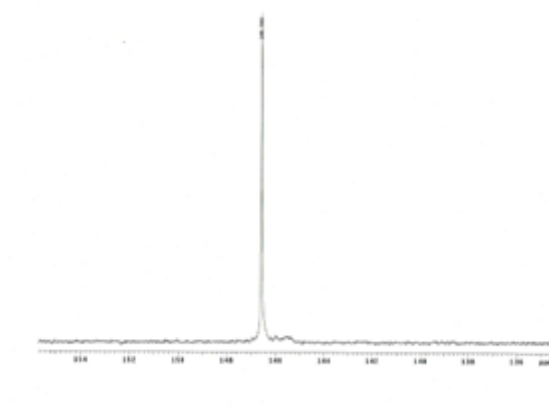
Heating at 10C/min and cooling at 10C/min. This is the 3rd cycle of heating at 10C/min
Sample: P42855 Siso DSC File: C:\TA\Data\DSC\Homopolymers\SIP42855 -Siso.001



SEC elugram of Homopolymer:



^{13}C NMR spectrum of the Sample:



DSC thermogram of the product:

T_g of polystyrene as function of molecular weight

