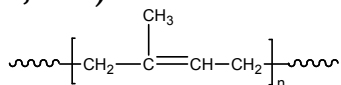


Sample Name: Polyisoprene
1,4- rich addition

Sample #: P9410-Ip
 (cis 1,4: 80%; trans 1,4:15% and
 3,4:5%)



Mn x 10 ³	PDI
70.0	1.08
T _g (°C)	-77

Synthesis Procedure:

Polyisoprene is obtained by living anionic polymerization of isoprene in a-polar media such as cyclohexane, toluene or hexane.

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.

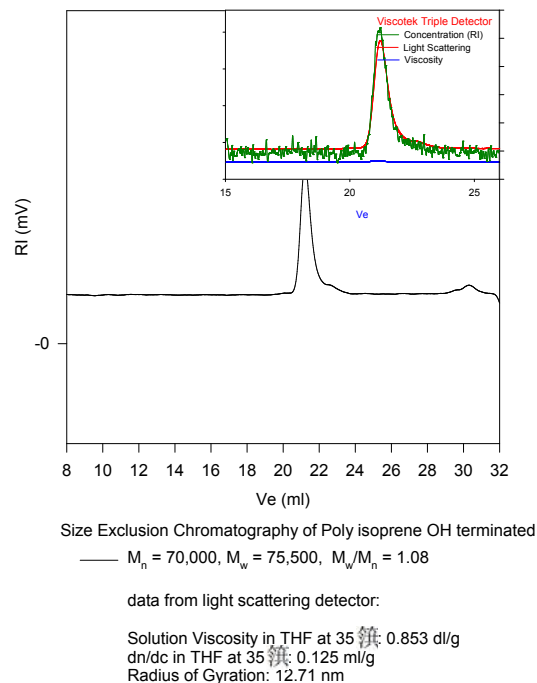
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

Solubility:

Polyisoprene is soluble in THF, toluene, hexane, pentane and cyclohexane and precipitates from methanol.

SEC of Homopolymer:

P9410-IP (1,4 addition)



Thermogram for the polymer:

