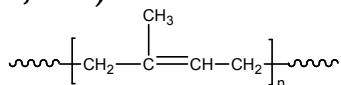


Sample Name: Polyisoprene
1,4- rich addition

Sample #: P5869-IP
 (cis 1,4: 80%; trans 1,4:15% and
 3,4:5%)



Mn x 10 ³	PDI
0.8	1.13
T _g (°C)	-64

Synthesis Procedure:

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

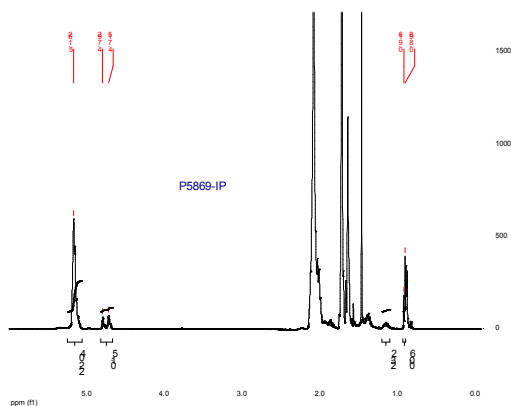
Characterization:

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.

Solubility:

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

HNMR of the Polymer



SEC of Homopolymer:

P5869-IP (1,4 addition)

