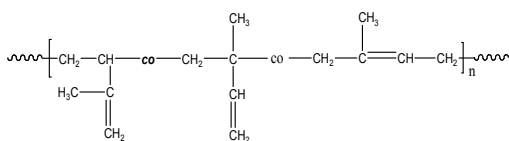


**Sample Name:** Polyisoprene  
*1,4- addition and 1,2 and 3,4 rich addition*

**Sample #:** P11356C-Ip



**Composition:**

1,2 addition 40%mol

3,4 addition 65%mol

1,4 addition 5%mol

Mn x 10 <sup>3</sup>	PDI
33.0	1.3
T <sub>g</sub> (°C)	-5

**Synthesis Procedure:**

Polyisoprene is obtained by living anionic polymerization of isoprene in polar media.

**Characterization:**

The molecular weight was calculated from NMR and polydispersity index (PDI) was obtained by size exclusion chromatography. 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. The composition of the microstructure was calculated from NMR.

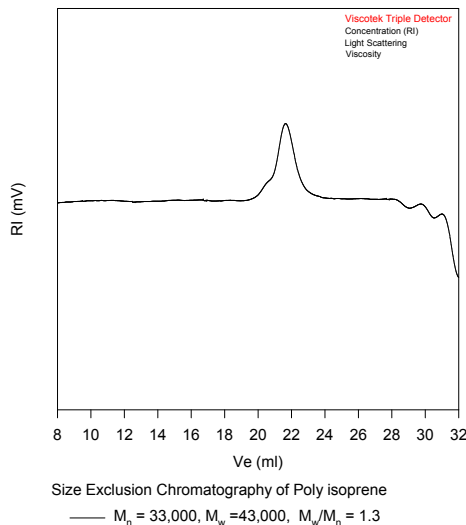
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T<sub>g</sub>) has been considered.

**Solubility:**

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

**SEC of Homopolymer:**

**P11356C-IP (1,2 and 3,4 addition)**



**Thermogram for the polymer**

