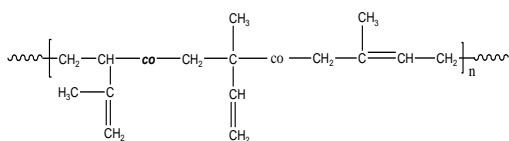


Sample Name: Polyisoprene
1,4- addition and 1,2 and 3,4 rich addition

Sample #: P11356B-Ip



Composition:

1,2 addition 40%mol

3,4 addition 65%mol

1,4 addition 5%mol

Mn x 10 ³	PDI
25.0	1.28
T _g (°C)	-5

Synthesis Procedure:

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

Characterization:

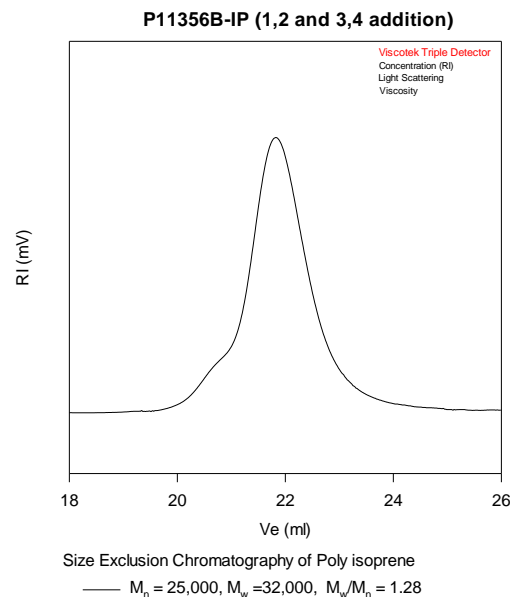
The molecular weight was calculated from NMR and polydispersity index (PDI) was obtained by size exclusion chromatography. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were 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_g) has been considered.

Solubility:

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

SEC of Homopolymer:



Thermogram for the polymer

