

Sample Name:

Deuterated Polybutadiene,

1,2-addition: 20.5% by FT-IR; 25% by ^1H NMR.

Sample #: P1446-dBd

Composition:

$M_n \times 10^3$	PDI
750.0	1.2

Synthesis Procedure:

Deuterated polybutadiene- d_6 was obtained by living anionic polymerization of d_6 -butadiene monomer.

Characterization:

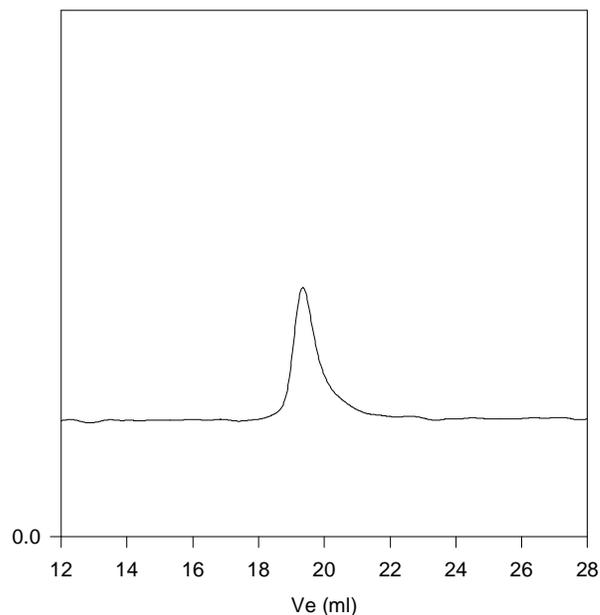
The molecular weight and polydispersity index (PDI) of the deuterated poly butadiene are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors from Viscotek Co. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used.

Solubility:

The polymer is soluble in toluene, THF, CHCl_3 .

SEC elugram of the polymer:

P1446-dBd



Size exclusion chromatograph of deuterated d_6 polybutadiene:

$M_n=750000$, $M_w= 900000$ PI=1.20