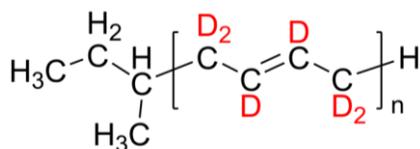


Sample Name: Deuterated Poly(1,4-butadiene-d6), end-groups are hydrogen-containing

Sample #: P43341A-dBd

Structure:

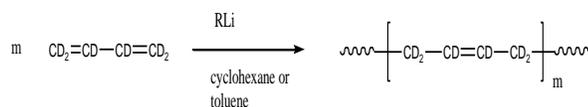


Composition:

Mn x 10 ³	Mw/Mn
10.0	1.07

Synthesis Procedure:

Deuterated polybutadiene-d₆ was obtained by living anionic polymerization of butadiene-d₆ monomer:



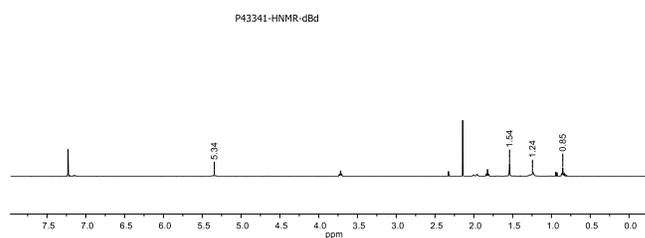
Characterization:

The molecular weight and polydispersity index (M_w/M_n) 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.

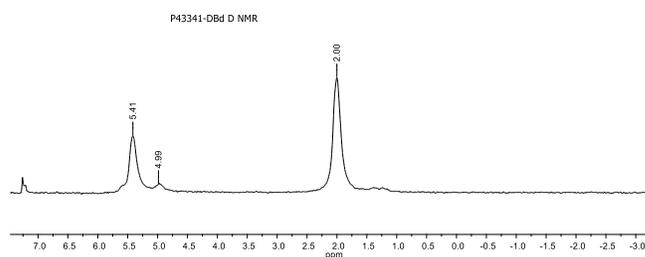
Solubility:

Polymer is soluble in toluene, THF and CHCl₃.

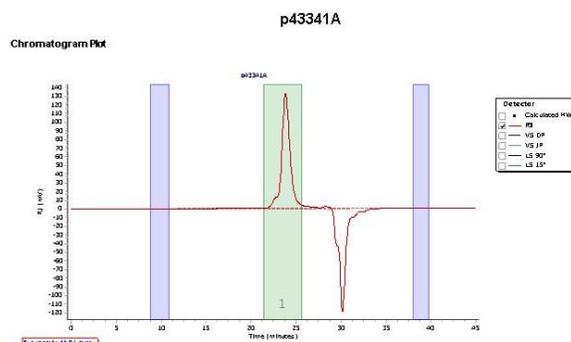
H NMR spectrum of the Sample:



D NMR spectrum of the Sample:



SEC elugram of the polymer:



Molecular Weight Averages							
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz ² (g/mol)	Mv (g/mol)	PD
Peak 1	10340	9851	10522	11311	12313	11225	1.089