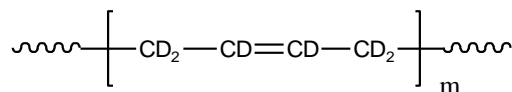


Sample Name: Deuterated Polybutadiene- d_6
(predominantly 1,4-addition), protonated end-groups.

Sample #: P42024-dPBd

Structure:

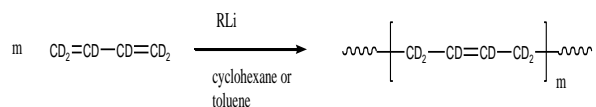


Composition:

$M_n \times 10^3$	M_w/M_n
4.5	1.01

Synthesis Procedure:

Deuterated polybutadiene- d_6 was obtained by living anionic polymerization of butadiene- d_6 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 CHCl_3 .

SEC elugram of the polymer:

Agilent GPC/SEC Software

