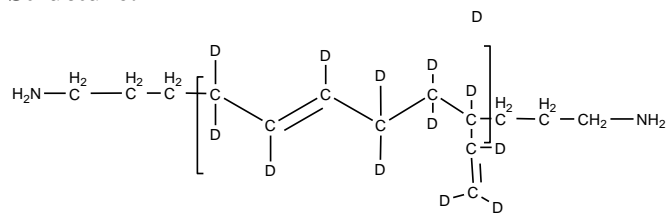


Sample Name: α - ω -Diamino terminated deuterated (d6)polybutadiene

Sample #: P41366-dBd2NH2

Structure:



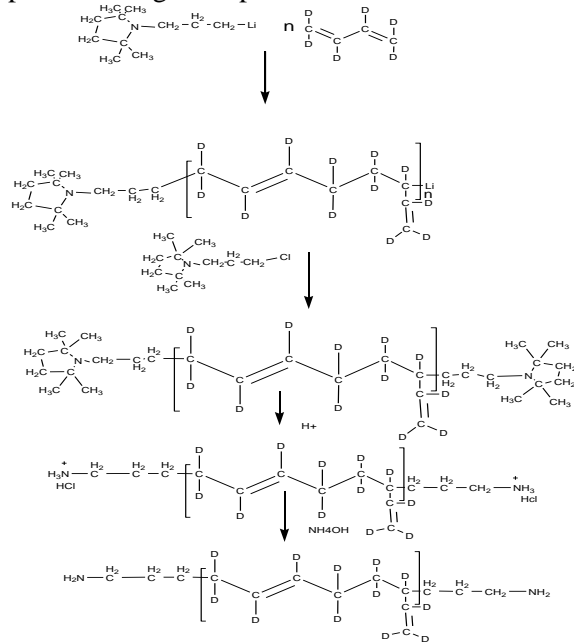
Composition:

Mn x 10 ³	PDI
4.0	1.3

Functionality	>90%
T _g	-45°C
1,2 addition	65%

Synthesis Procedure:

The polymer was prepared by anionic polymerization process using NH2 protected initiator.



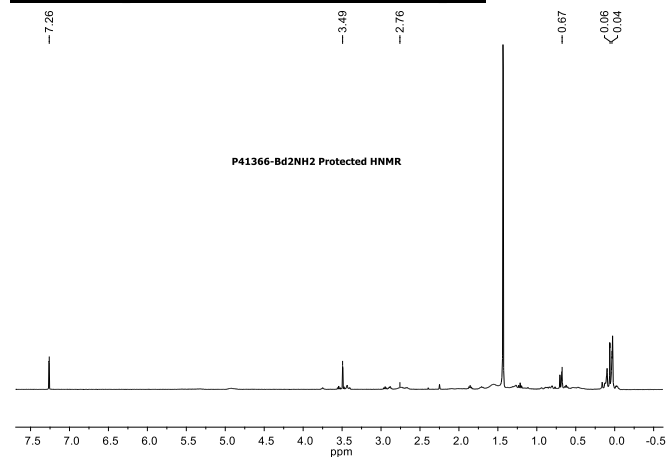
Characterization:

The polymer was characterized by SEC and ¹H NMR.

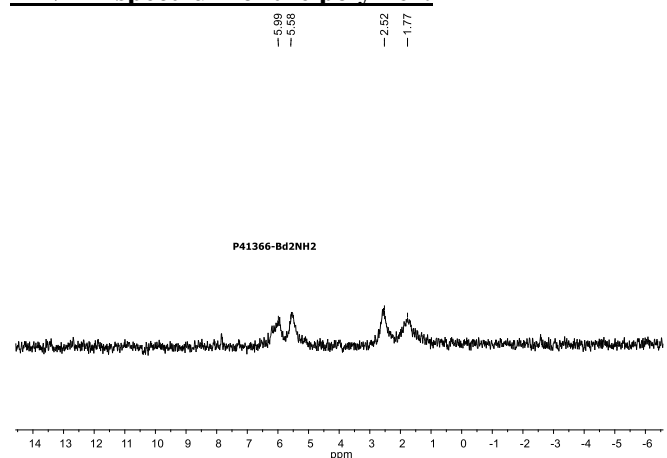
Functionality:

The functionality of polymer was determined by the titration with HClO₄ using crystal violet as the indicator.

HNMR spectrum of Bd2NH2 Sample:



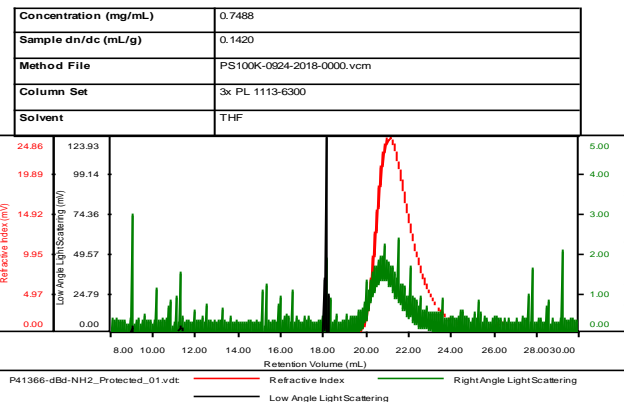
D NMR spectrum of the polymer:



SEC elugram of the Sample:

P41366-dBd2NH2

NH2 terminal groups protected by Naphthyl isocyanate to avoid adsorption with Column material



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P41366-dBd-NH2	3,850	5,244	1.362	1.0000	6,243