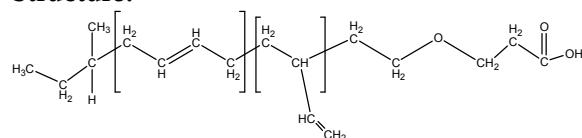


Sample Name: COOH Terminated Polybutadiene,

1, 2 addition microstructure

Sample #: P19289A-BdCOOH

Structure:



Composition:

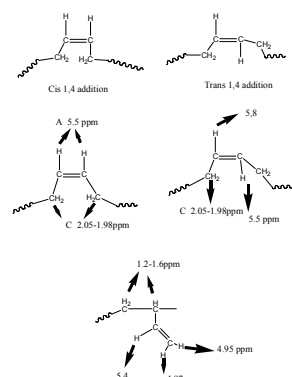
Mn x 10 ³	2.0
PDI	1.02
1,2-microstructure	70%
1,4-microstructure	30%

Synthesis Procedure: By anionic process

Carboxy-terminated polybutadiene was prepared by anionic living polymerization of butadiene in non-polar solvent followed by termination with ethylene oxide.

Characterization:

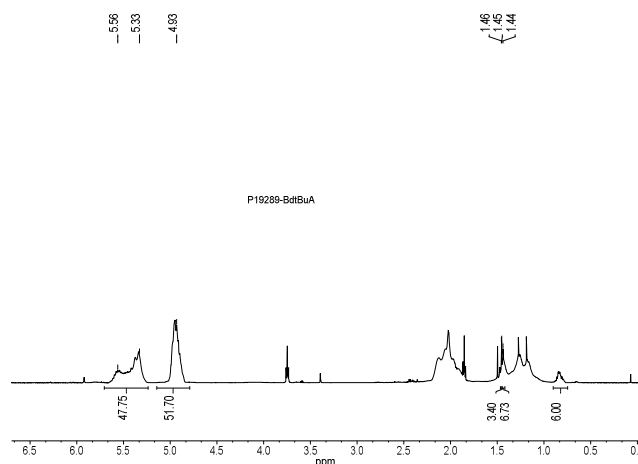
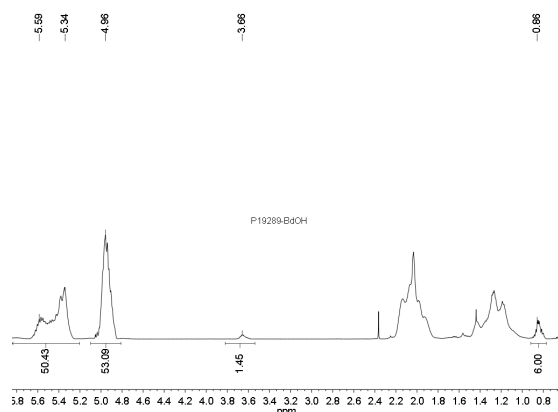
By HNMR and GPC.



Solubility:

Polymer is soluble in DMF, THF, toluene, hexane, cyclohexane and CHCl₃.

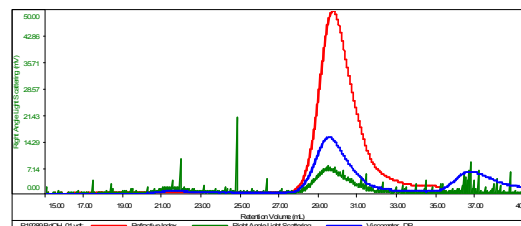
¹HNMR of BdOH:



SEC of BdOH:

Sample ID:P19289-BdOH

Concentration (mg/mL)	14.1623
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-May20-2015-0000.vom
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19289-BdOH_01.vst	1,886	1,996	1,953	1.048	0.1402

FTIR of before and after hydrolysis of BdtBuA to BdCOOH:

