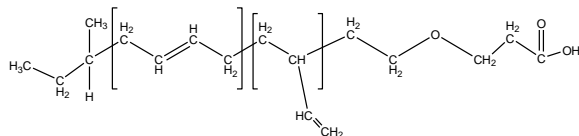


Sample Name: COOH Terminated Polybutadiene,
1,2/1,4-microstructure
Sample #: P19305A-BdCOOH
Structure:



Composition:

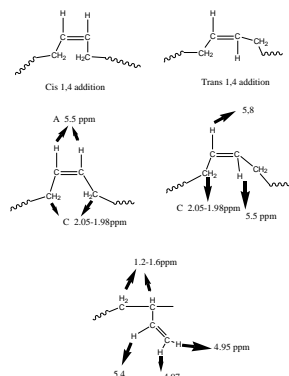
Mn x 10 ³	2.5
PDI	1.03
1,2-microstructure	40%
1,4-microstructure	60%

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:

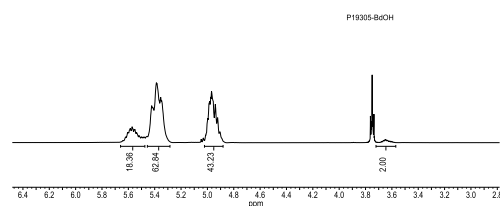
By HNMR and GPC.



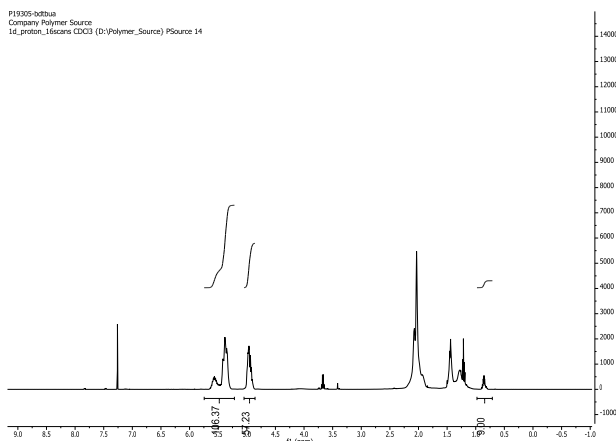
Solubility:

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

¹HNMR of BdOH:



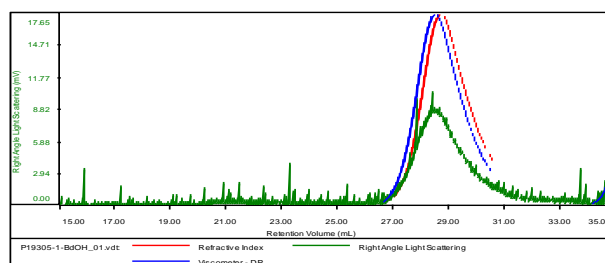
P19305-bdohai
 Company Polymer Source
 14_proton_14source CD3 (D:)Polymer_Source) PSource 14



SEC of BdOH:

Sample ID:P19305-1-BdOH

Concentration (mg/mL)	17.2357
Sample dn/dc (mL/g)	0.1200
Method File	PS80K-May20-2015-0000.vcm
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)
P19305-1-BdOH_01.vdt	2,391	2,480	2,412	1.037	0.1437

FTIR of before and after hydrolysis of BdtBuA to BdCOOH:

