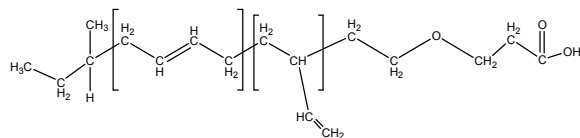


Sample Name: COOH Terminated Polybutadiene,
1, 2/1, 4-microstructure
Sample #: P19301A-BdCOOH
Structure:



Composition:

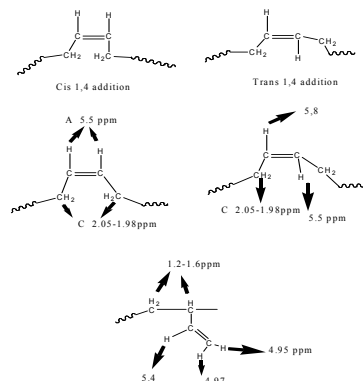
Mn x 10 ³	1.7
PDI	1.05
1,2-microstructure	60%
1,4-microstructure	40%

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:

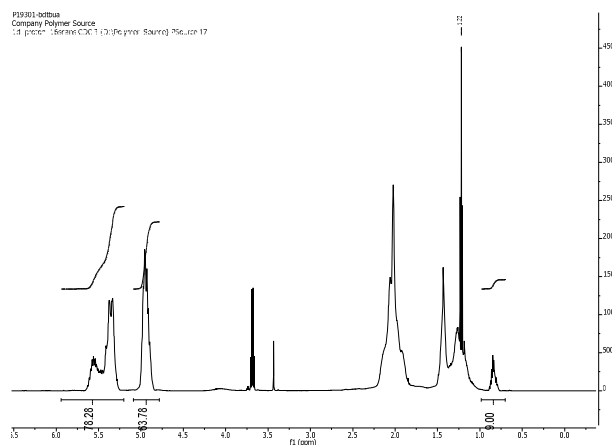
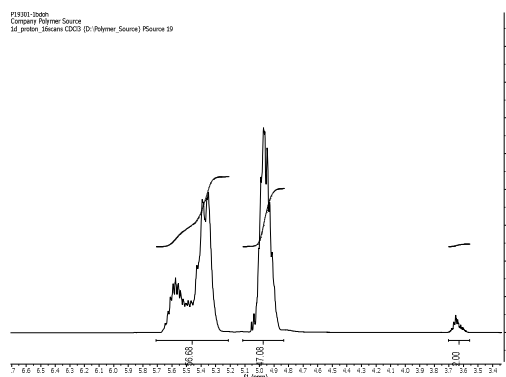
By HNMR and GPC.



Solubility:

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

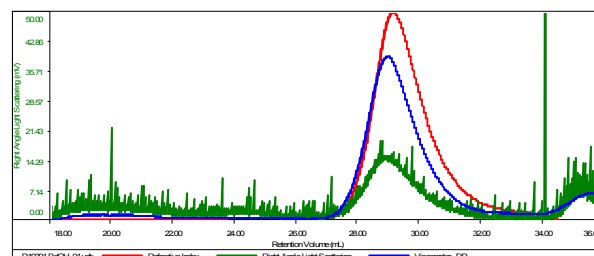
¹HNMR of BdOH:



SEC of BdOH:

Sample ID: P19301-BdOH

Concentration (mg/mL)	33.2009
Sample dn/dc (mL/g)	0.1270
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)
P19301-BdOH_01.vcl	1,665	1,762	1,737	1.046	0.1398

FTIR of before and after hydrolysis of BdtBuA to BdCOOH:

