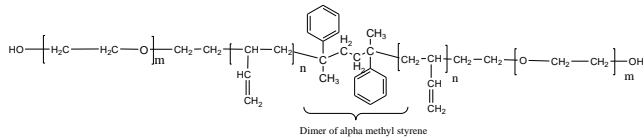


Polybutadiene, 1,2-rich microstructure

Structure:



Mn x 10 ³	PDI	1,2 addition
25.0-b-10.0-b-25.0	1.27	>85%

1,2-rich microstructure addition dihydroxy terminated polybutadiene was prepared by anionic living polymerization (by lithium naphthalene) of butadiene in polar solvent such as THF at 0 °C followed by termination with ethylene oxide and than growing PEO block from its potassium salt.

The product was characterized by size exclusion chromatography (SEC) and ^1H NMR.

Size Exclusion Chromatography of OH terminated poly(butadiene)

— $M_n = 10,000$, $M_w = 11,000$, $M_w/M_n = 1.10$
 Solution Viscosity in THF at 35 °C: 0.368 dl/g
 dilution THF at 35 °C: 0.12 ml/g
 Rgr: 5.33 nm

Concentration (mg/mL)	3.6210
Sample volume (mL/g)	0.0570
Method File	P50046_Inst27201700001.vom
Od Linn. Set	3k PL11136.000
Solvent	THF

