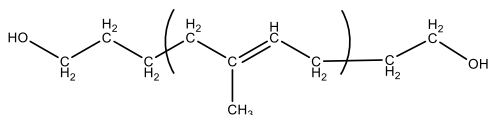


Sample Name: Poly(1,4-Isoprene), α,ω -bis(hydroxy)-terminated

Sample #: P44351C-IP2OH

Structure:

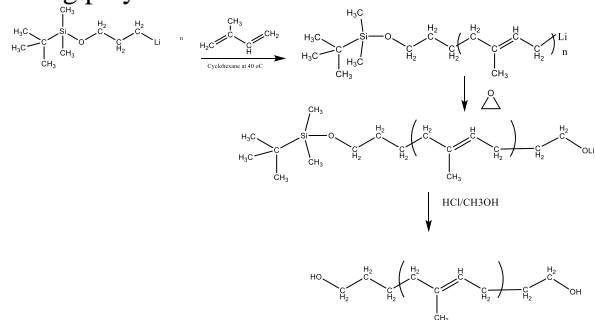


Composition:

| Mn x 10 ³ | PDI |
|----------------------|------|
| 0.5 | 1.03 |
| functionality +98% | |

Synthesis Procedure:

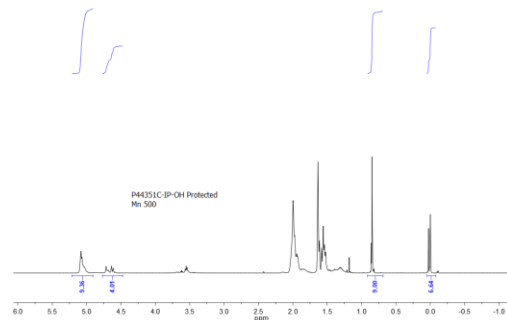
1,4-rich microstructure addition dihydroxy terminated polyisoprene was prepared by anionic living polymerization.



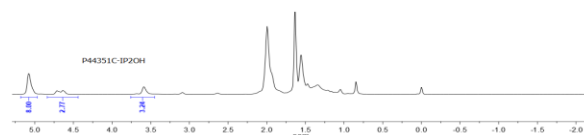
Characterization:

The product was characterized by size exclusion chromatography (SEC), ¹H NMR data analysis and DSC thermal analysis.

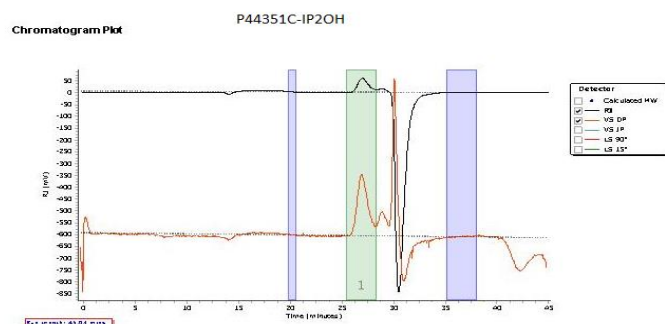
¹H-NMR spectrum of the Tert Butyl dimethylsiloxyl OH terminated:



Cleavage of tert-Butyl Dimethylsiloxy end group using HCL/THF :



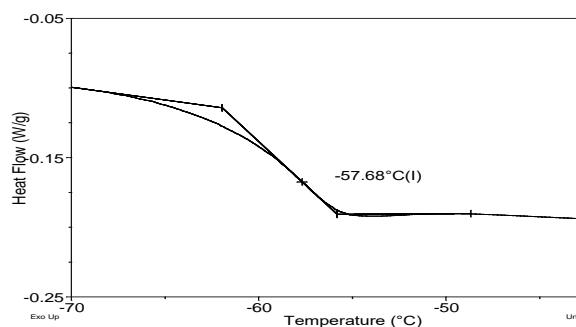
SEC profile of the Sample:



| Peak | Mp (g/mol) | Mn (g/mol) | Mw (g/mol) | Mz (g/mol) | Mz+1 (g/mol) | Mw (g/mol) | PDI |
|--------|------------|------------|------------|------------|--------------|------------|-------|
| Peak 1 | 472 | 442 | 453 | 465 | 475 | 459 | 1.026 |

DSC thermal analysis:

Sample: P44351C



DSC analysis of Poly Isoprene Mn of 800 rich ion 1,4 addition for comparison purposes

Sample: P5869-IP

