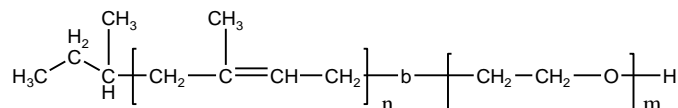


Sample Name:
Poly(1,4-isoprene)-b-poly(ethylene oxide)

Sample #: **P42183-IPEO**
(polyisoprene block is rich in 1,4 microstructure)

Structure:



Composition:

Mn x 10 ³ [PIP-b-PEO]	Mw/Mn (PDI)
5.5–b–15.0	1.02

Synthesis Procedure:

Poly(1,4-isoprene)-block-poly(ethylene oxide) was synthesized by anionic polymerization process.

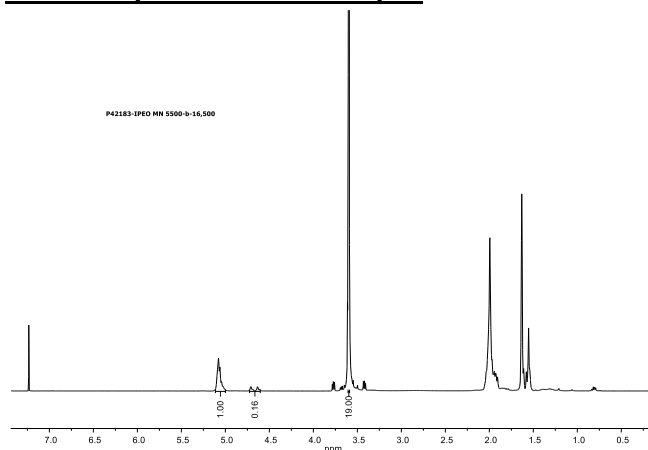
Characterization:

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

Solubility:

Poly(isoprene-b-ethylene oxide) is soluble in THF, chloroform, and toluene. The polymer has variable solubility in hexane, methanol, ethanol and water depending on its molecular weight composition.

¹H NMR spectrum of the sample:



SEC chromatogram of the diblock copolymer:

Agilent GPC/SEC Software

