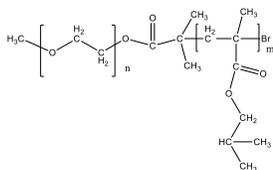


Sample Name:
Poly(ethylene oxide-b-Iso butyl methacrylate)

Sample #: P43930-EOisoBuMA

Structure:

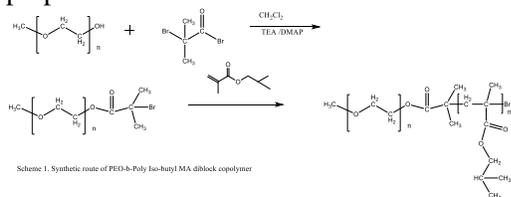


Composition:

Mn x 10 ³	PDI
PEO-b-IsoBuMA	
5.0-b-5.5	1.6

Synthesis Procedure:

Poly(Ethylene oxide-iso butyl methacrylate) is prepared as shown in the scheme below:



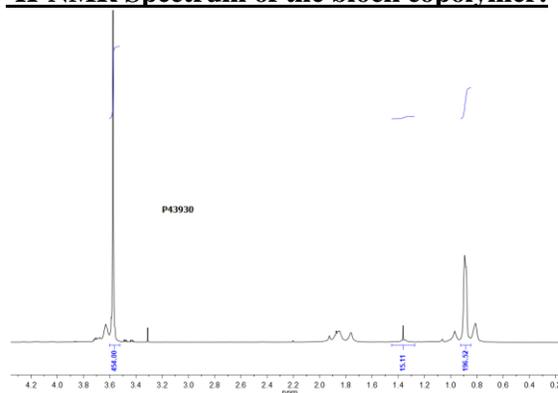
Characterization:

Polymer composition was determined by H NMR taking the integration of PEG block at 3.66 ppm and methyl ester of PMMA block at 3.62 ppm. Molecular weights of the first block and the Mw/Mn of the final and the first block was determined by SEC in THF.

Solubility:

Poly(ethylene oxide -b- isoBuMA) is soluble in CHCl₃, THF, toluene. The polymer precipitated out from hexane.

¹H-NMR Spectrum of the block copolymer:



SEC of the block copolymer:

