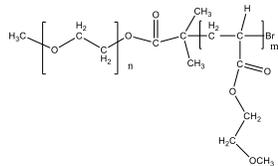


Sample Name: Poly(ethylene oxide)-b-Poly(methoxy ethyl acrylate)

Sample #: P43947-EOMeOEA

Structure:

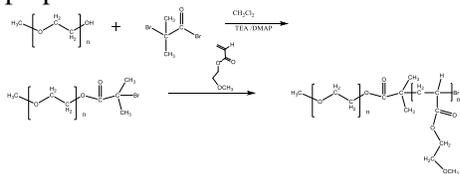


Composition:

Mn x 10 ³ PEO-b-MeOEA	PDI
5.0-b-10.0	1.25

Synthesis Procedure:

Poly(Ethylene oxide-Methoxy ethylacrylate) is prepared as shown in the scheme below:



Scheme 1. Synthetic route of PEO-b-Poly(Methoxy Ethyl acrylate) diblock copolymer

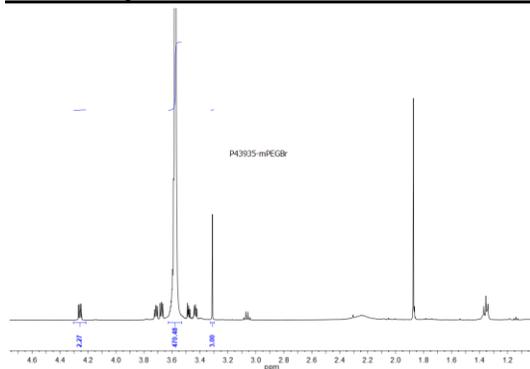
Characterization:

Polymer composition was determined by ¹H NMR taking the integration of PEG block at 3.66 ppm and MeO of MeOEA block at 3.3 ppm. Molecular weights of the first block and the Mw/Mn of the final and the first block was determined by SEC in THF.

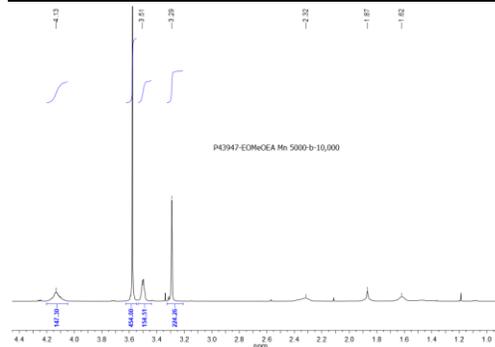
Solubility:

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

H NMR spectrum of the PEGBr Mn of 5000:



¹H-NMR Spectrum of the block copolymer:



SEC profile of the Sample:

