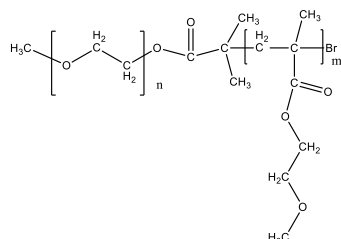


Sample Name:

Poly(ethylene oxide-b-Methoxy ethyl methacrylate)

Sample #: P43981-EOMeOEMA

Structure:

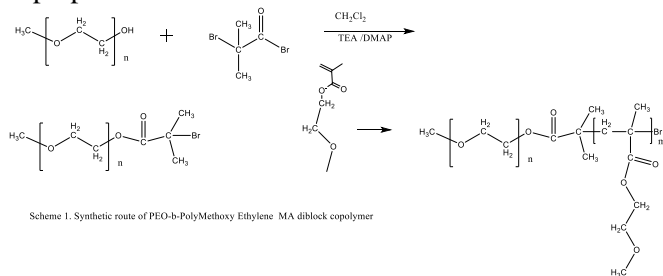


Composition:

Mn x 10 ³ PEO-b-MeOEA	PDI
5.0-b-5.8	1.44

Synthesis Procedure:

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



Scheme 1. Synthetic route of PEO-b-PolyMethoxy Ethylene MA diblock copolymer

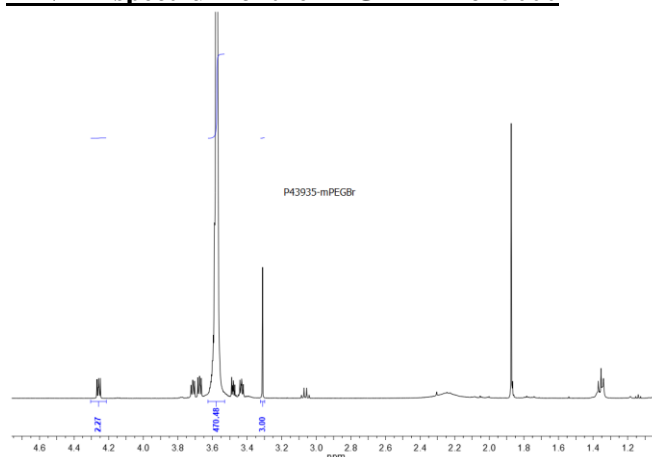
Characterization:

Polymer composition was determined by ¹H NMR taking the integration of PEG block at 3.66 ppm and MeO of MeOEMA 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.

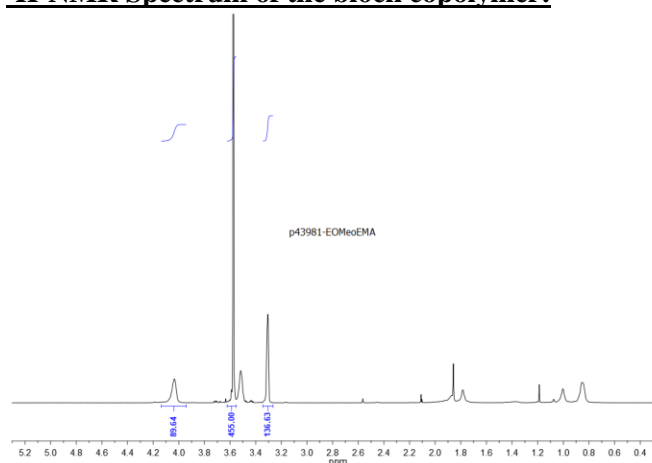
Solubility:

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

¹H NMR spectrum of the PEGBr Mn of 5000



¹H-NMR Spectrum of the block copolymer:



SEC profile of the Sample:

