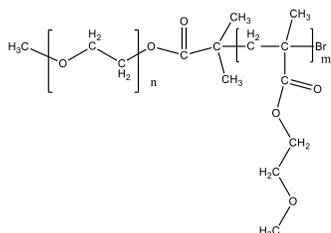


**Sample Name:**  
**Poly(ethylene oxide-b-Methoxy ethyl methacrylate)**

**Sample #: P43976-EOMeOEMA**

**Structure:**

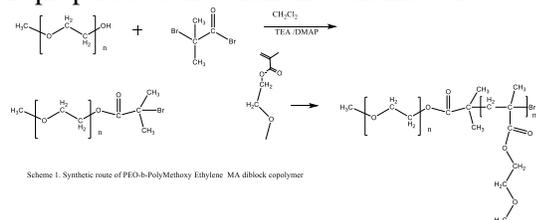


**Composition:**

Mn x 10 <sup>3</sup> PEO-b-MeOEA	PDI
5.0-b-10.0	2.4

**Synthesis Procedure:**

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



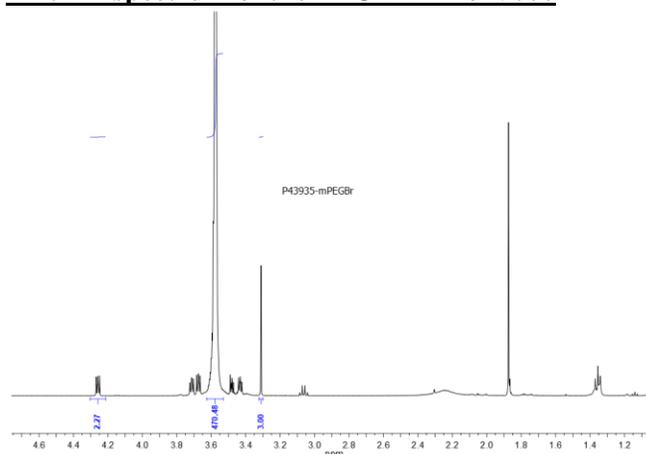
**Characterization:**

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

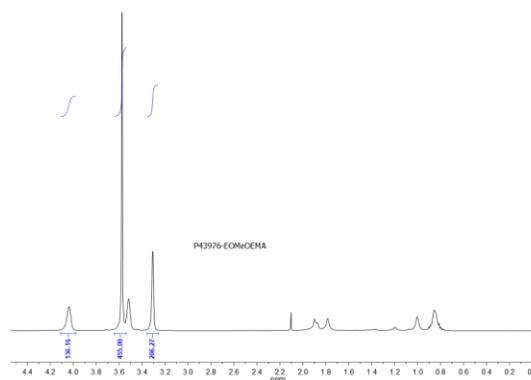
**Solubility:**

Poly(ethylene oxide -b- MeOEMA) is soluble in CHCl<sub>3</sub>, THF, toluene. The polymer precipitated out from hexane.

**H NMR spectrum of the PEGBr Mn of 5000**



**<sup>1</sup>H-NMR Spectrum of the block copolymer:**



**SEC profile of the Sample:**

