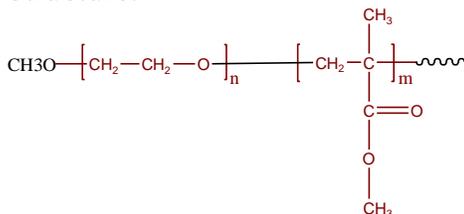


Sample Name:

**Poly(ethylene oxide-b-methyl methacrylate)**

Sample #: **P6159-EOMMA**

Structure:

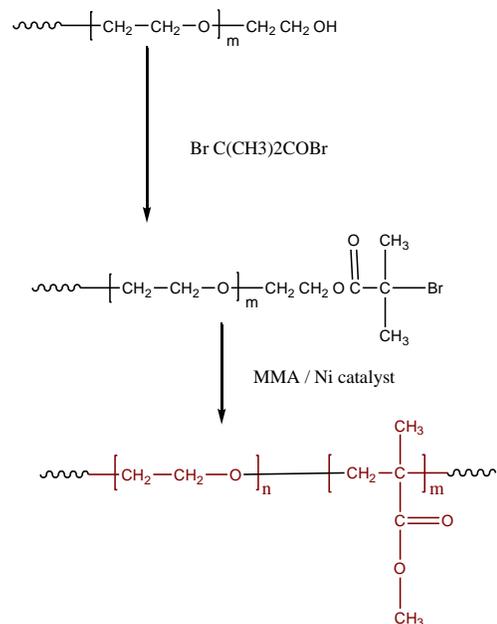


Composition:

Mn x 10 <sup>3</sup> PEO-b-MMA	PDI
2-b-12	1.16

Synthesis Procedure:

Poly(Ethylene oxide-methylmethacrylate) is prepared as the scheme below:



Characterization:

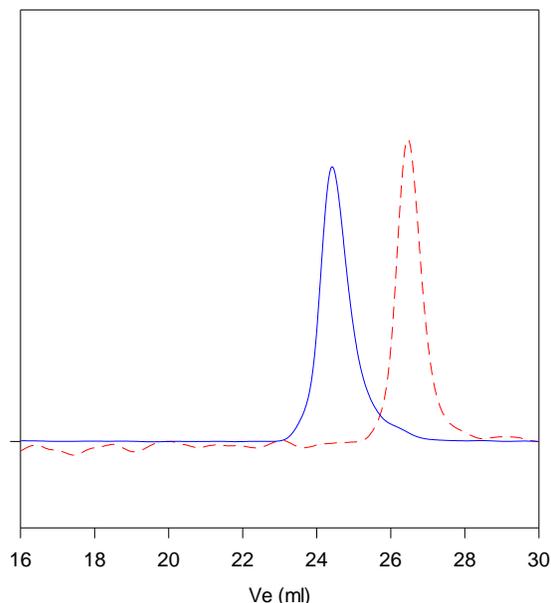
Polymer composition was determined by H NMR taking the integration of PEG block at 3.66 ppm and methyl ester of PMMA block at 3.62 ppm. Molecular weights of the first block and the Mw/Mn of the final and the first block was determined by SEC in THF.

Solubility:

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

SEC of the block copolymer:

**P6159-EOMMA**



Size exclusion chromatography of poly(EO-b-MMA)

--- PEO, M<sub>n</sub>=2000, M<sub>w</sub>=2160, Mw/Mn=1.08

— Poly(ethylene oxide-b-methyl methacrylate)

Mn: PEO(2000)-b-MMA(12000) Mw/Mn=1.16