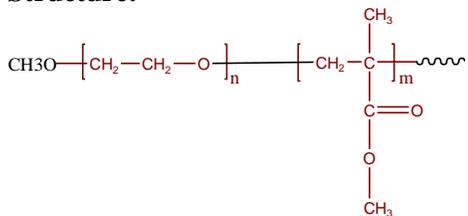


Sample Name:

Poly(ethylene oxide-b-methyl methacrylate)

Sample #: **P6161-EOMMA**

Structure:

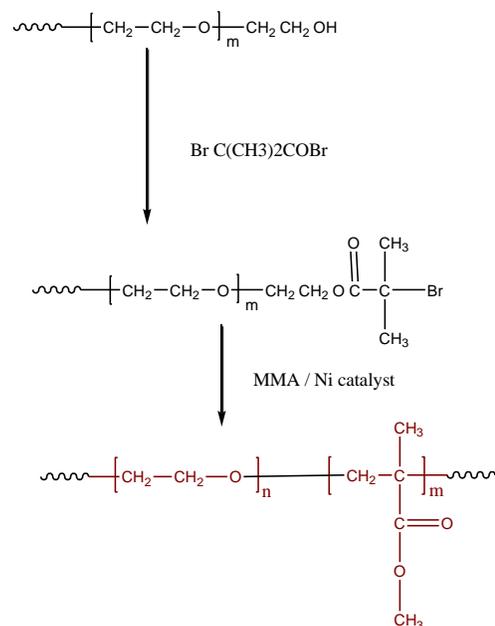


Composition:

$M_n \times 10^3$ PEO-b-MMA	PDI
5.0-b-9.0	1.12

Synthesis Procedure:

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



Characterization:

Polymer composition was determined by ¹H 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 M_w/M_n of the final and the first block was determined by SEC in THF.

Solubility:

Poly(ethylene oxide -b- MMA) is soluble in CHCl_3 , THF, toluene. The polymer precipitated out from hexane.

SEC of the block copolymer:

P6161-EOMMA

