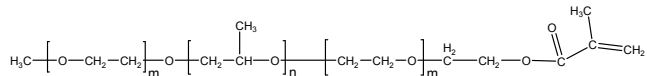


**Sample Name:****Methacrylate end Functionalized Poly(ethylene oxide-b-propylene oxide -b- ethylene oxide)****Sample #: P14531-EOPOEOMA****Structure:****Composition:**

Mn x 10 <sup>3</sup>	PDI
0.440-b-1.3-b-0.3	1.09
Dp: 11-b-22-b-7	

**Synthesis Procedure:**

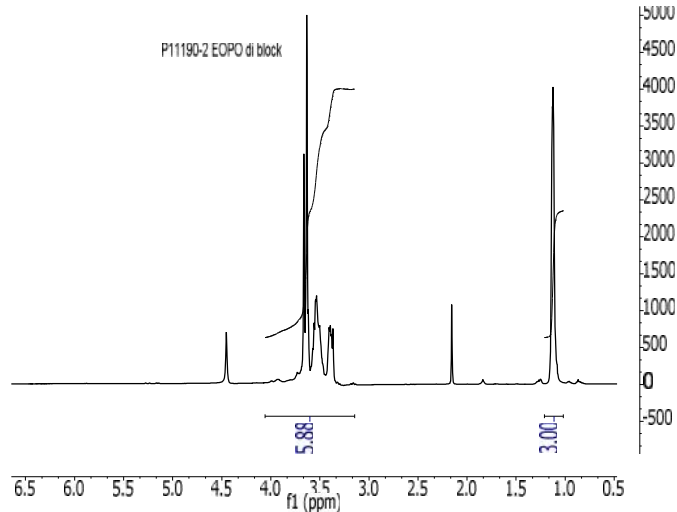
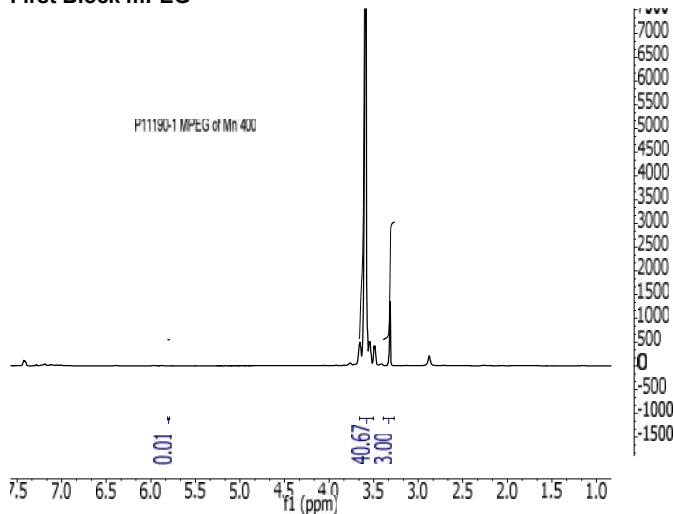
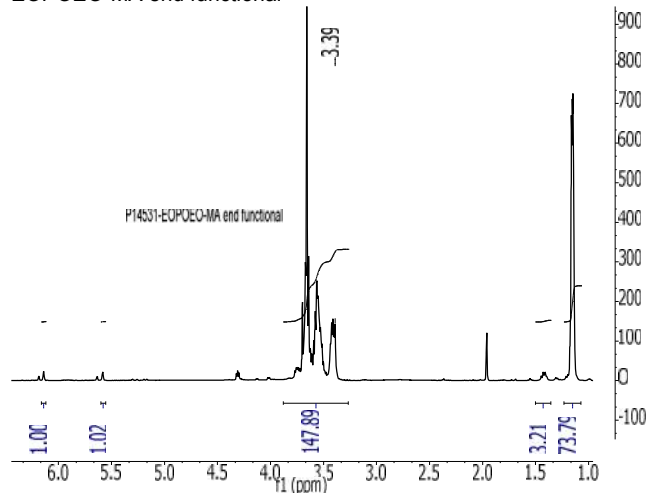
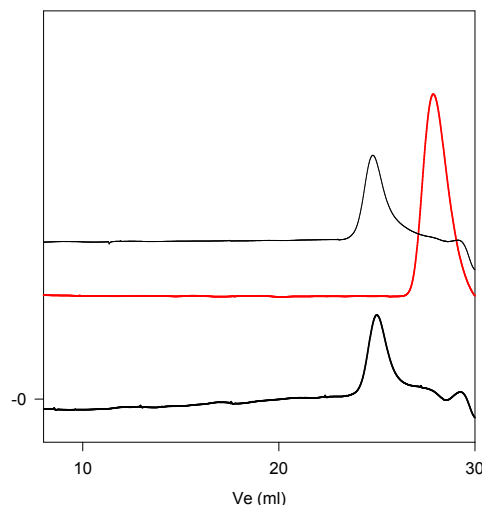
Poly(ethylene oxide-b-propylene oxide-b-ethylene oxide) is prepared by living anionic polymerization with sequence addition of monomer EO and propylene oxide. Functionalization was carried out in DCM using methacryloyl chloride.

**Characterization:**

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

**Solubility:**

Polymer is soluble in THF, CHCl<sub>3</sub>, and toluene.

**HNMR of EOPOEO Macromonomer: EOPOEO****First Block mPEG****EOPOEO-MA end functional****SEC of Sample:****P14531-EOPOEO**

Size exclusion chromatography of the product:

- Poly(ethylene glycol methylether) :  $M_n=440$ ,  $M_w=480$ ,  $M_w/M_n=1.09$
- Poly(ethylene glycol methylether-b-PO) :  $M_n=440-1300$ ,  $M_w/M_n=1.09$
- Poly(ethylene glycol methylether-b-PO-b-EO) :  $M_n=440-1300-300$ ,  $M_w/M_n=1.09$