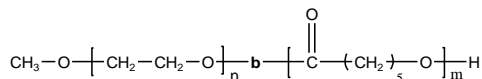


Sample Name:**Poly(ethylene oxide -b- ε -caprolactone)****SEC of Sample:****Sample #: P3154-EOCL****Structure:****Composition:**

Mn x 10 ³ PEO-b-PCL (k)	PDI
5.0-b-37.0	1.8

Synthesis Procedure:

Poly(ethylene oxide -b- ε -caprolactone) is prepared by living anionic polymerization of ethylene oxide and coordination polymerization of ε -caprolactone.

Characterization:

An aliquot of the anionic poly(ethylene oxide) block was terminated before addition of caprolactone and analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from ¹H-NMR spectroscopy by comparing the peak area of the ethylene oxide protons at about 3.6 ppm with the ε -caprolactone protons at about 4.1 ppm.

Solubility:

Poly(ethylene oxide -b- ε -caprolactone) is soluble in CHCl₃, THF, DMF, toluene and precipitated out from cold ethanol, diethyl ether.

P3154- EOCL