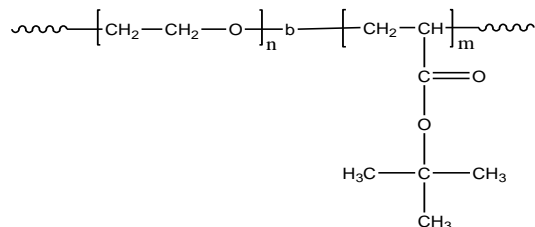


**Sample Name:** Poly (ethylene oxide-b-t-butyl acrylate)

**Sample #:** P42304-EOtBuA

**Structure:**

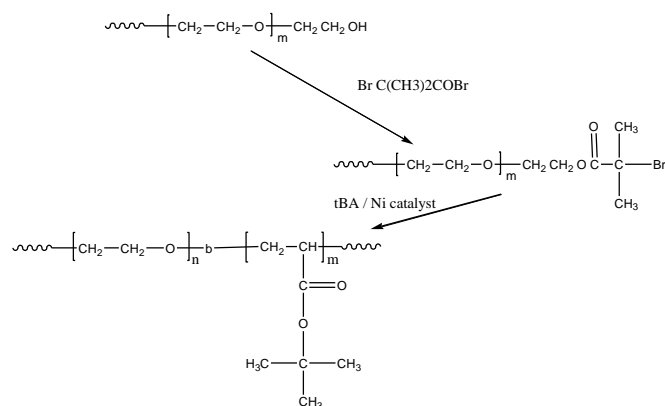


**Composition:**

Mn x 10 <sup>3</sup> EO-b-tBuA	PDI
6.0-b-11.0	1.16

**Synthesis Procedure:**

The polymer is prepared as following scheme:



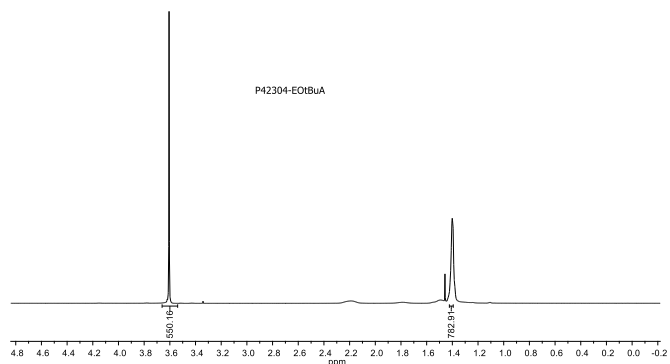
**Characterization:**

The final block copolymer composition was calculated from <sup>1</sup>H-NMR spectroscopy by comparing the peak area of the t-butyl acrylate protons at 1.43 ppm with the peak area of the ethylene oxide protons at 3.6 ppm. Copolymer PDI is determined by SEC.

**Solubility:**

The polymer is soluble in CHCl<sub>3</sub>, methanol, THF and precipitated out from cold hexane or ether.

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



**SEC of the block copolymer before hydrolysis:**

