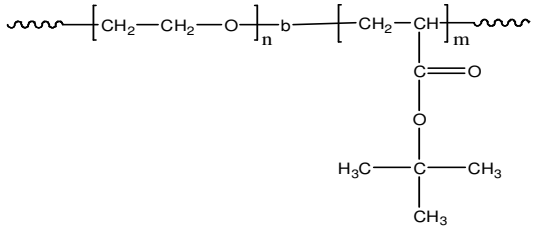
Sample Name: **Poly(ethylene oxide-b-t-butyl acrylate)**

Sample #: **P19606-EOtBuA**

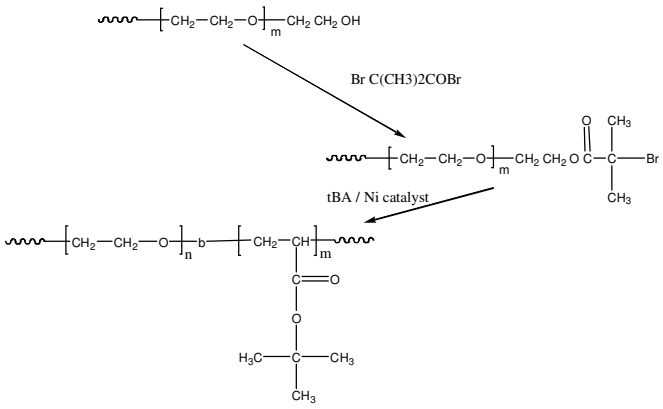
Structure:



Composition:

Mn x 10^3 EO-b-tBuA	PDI
2.0-b-19.0	1.17

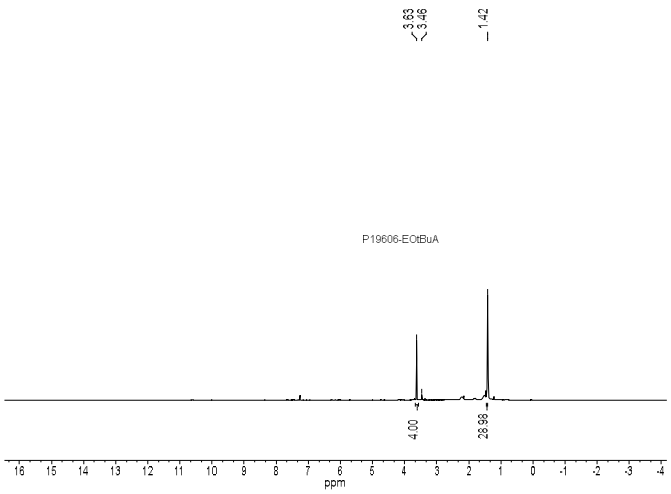
Synthesis Procedure:
The polymer is prepared as following scheme:



Characterization:
The final block copolymer composition was calculated from ^{1}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 $CHCl_3$, methanol, THF and precipitated out from cold hexane or ether.

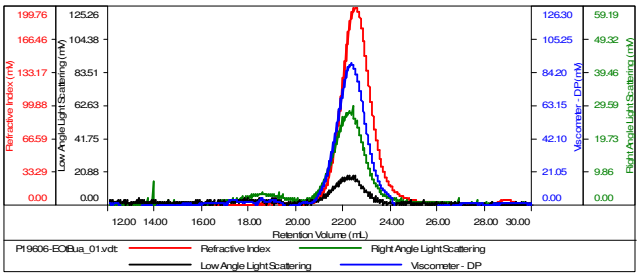
^{1}H-NMR spectrum of the block copolymer:



SEC of the block copolymer:

Sample ID-P19606-EOtBuA

Concentration (mg/mL)	1.4176
Sample dn/dc (mL/g)	0.0800
Method File	PS80K-Nov-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19606-EOtBua_01.vdt	21,195	24,718	20,901	1.166	2.6440