

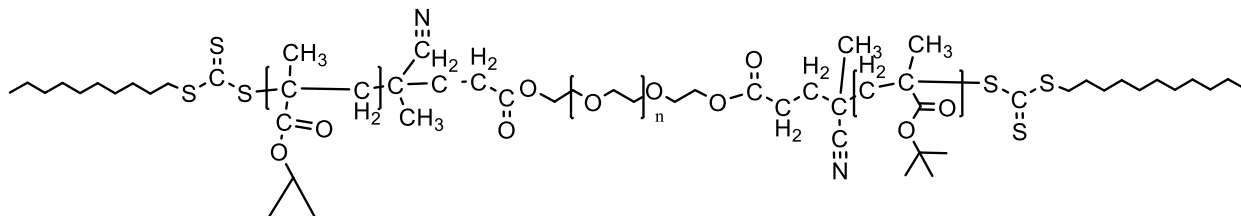
Product Profile

Identification

Product Name: Poly(Methacrylic acid-b-Ethylene oxide-b-Methacrylic acid)

Product Lot Number: P44567-MAAEOMAA

Product Chemical Architecture:



Composition:

MAA-EO-MAA	Mw/Mn (PDI)
2.0-b-4.0-b-2.0	1.18
Dp of each block: MAA ₂₃ -EO ₉₁ -MAA ₂₃ from ¹ H NMR	

Method of Synthesis

The polymer is synthesized by RAFT polymerization process.

Solubility in different solvents

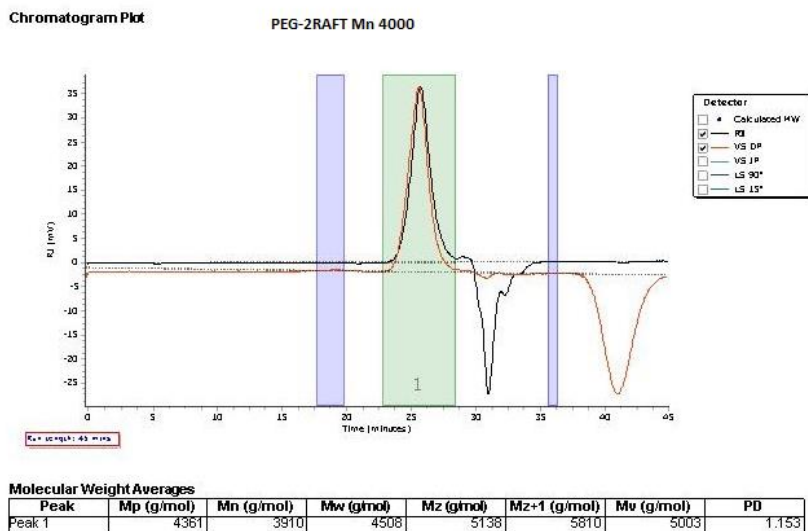
THF	✓	DMF	✓
CHCl ₃	X	CHCl ₃	X
Water	X	Water-pH 7-9	✓

Purification

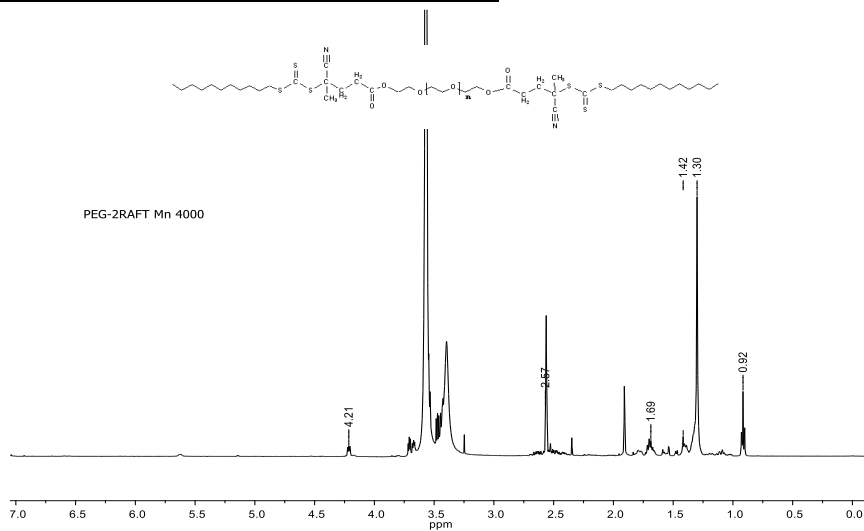
The Polymer has been purified to remove unreacted PEG by stirring in Hot Water.

Validation of Architecture

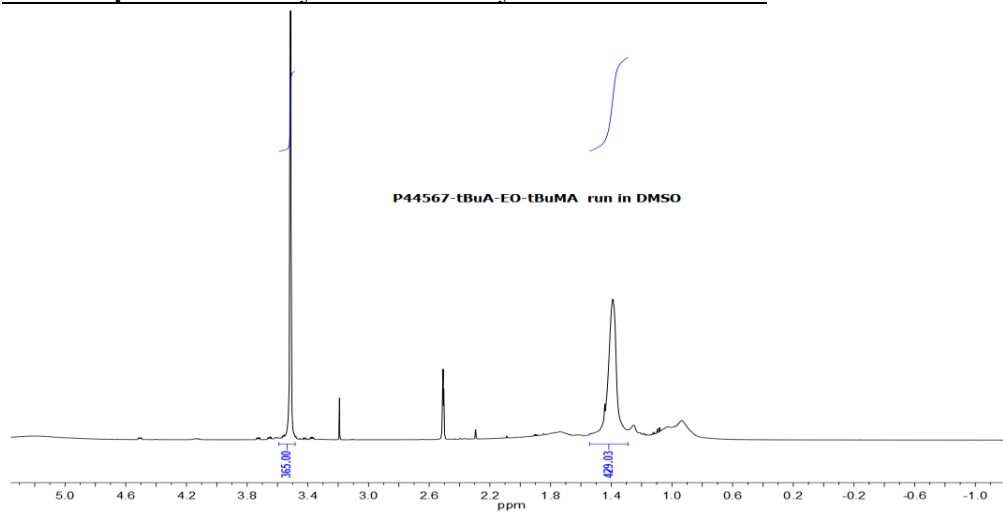
A. Gel Permeation Chromatography (GPC), SEC- PEG, PEG- α - ω -RAFT:



B. SEC of Poly tBuMA-b-Ethylene Oxide-tBuMA:



C. HNMR spectrum of Poly tBuMA-b-Ethylene Oxide-tBuMA:



D. HNMR spectrum of PMAA-b-EO-PMAA run in DMSO:

