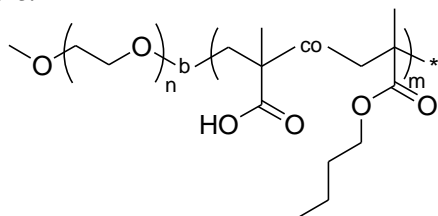


Sample Name: Poly(EO-b-Methacrylic acid -n butylmethacrylate ran

Sample #: P19059A-EO-MAAnBuMAran

Structure:

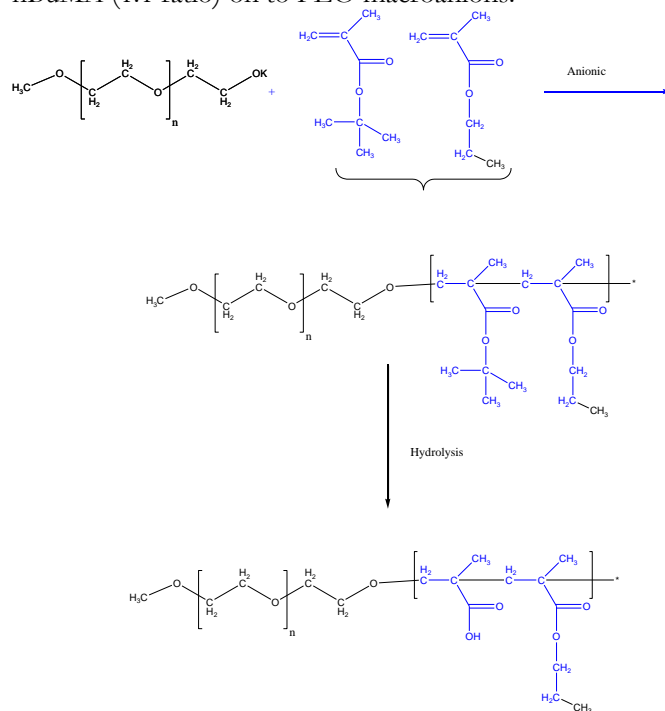


Composition:

Mn × 10 ³ EO-b-MAAnBUMAran	PDI
7.5-b-22.0	1.2
MAA:nBUMA	1:1 ratio

Synthesis Procedure:

This lot by successive addition of mixture of tBuMA-nBuMA (1:1 ratio) on to PEO macroanions.



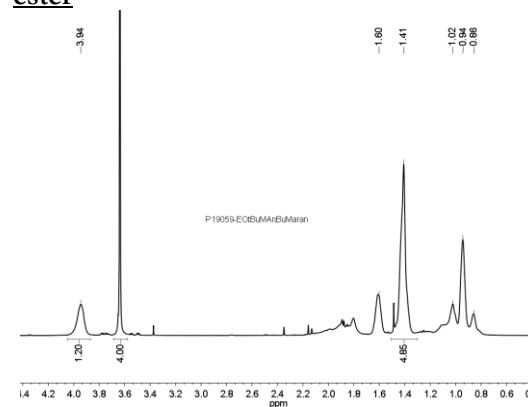
Characterization:

BY SEC and HNMR analysis.

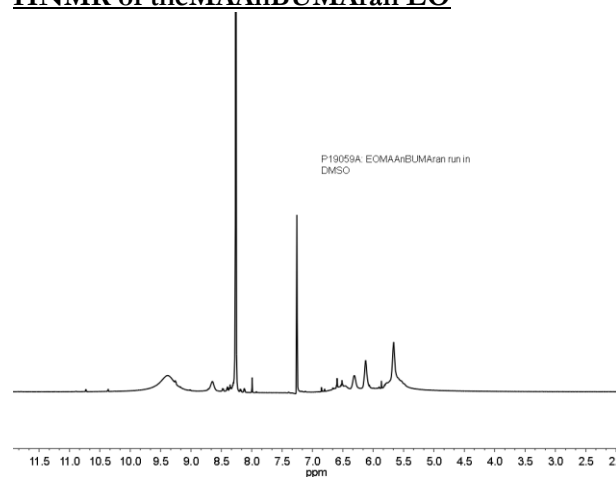
References:

J. Wang, **S. K. Varshney**, J. Jerome and Ph. Teyssie "Synthesis of AB (BA) ABA and BAB Block copolymers of tert-butylmethacrylate (A) and ethylene oxide (B) " *CA Vol 117, 16, 151478, J. Polym. Sci., Part-A: Polym. Chem. Ed., 1992, 30, 2251-2261.*

¹H-NMR Spectrum of the block copolymer in ester

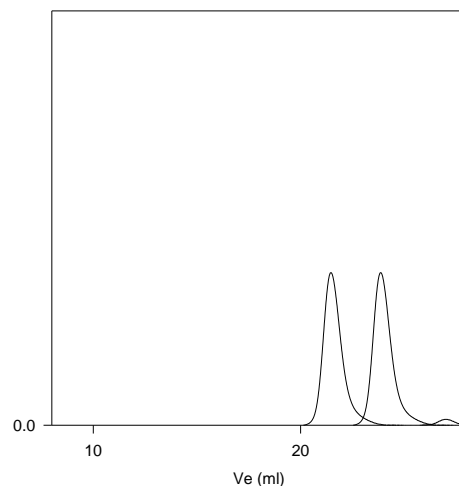


HNMR of theMAAnBUMAran EO



SEC of the block copolymer:

P19059-EO-tBuMAAnBuMAran



Size exclusion chromatography of poly(ethylene oxide-t-butyl methacrylate)

— Poly(ethylene oxide), M_n=7500, M_w=8250, PI=1.10

— Block Copolymer PEO(7500)-b-PtBMAAnBuMAran (27000), PI=1.10
Composition from H NMR
after Hydrolysis of tert. butyl ester:
Mn: PEO-b-MAAnBuMA: 7500-b-22,000