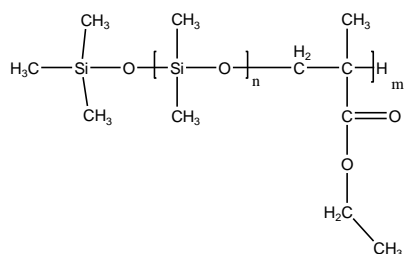


Sample Name: Poly(dimethylsiloxane-b-Ethylmethyle methacrylate)

Sample #: P11253-DMSEtMA

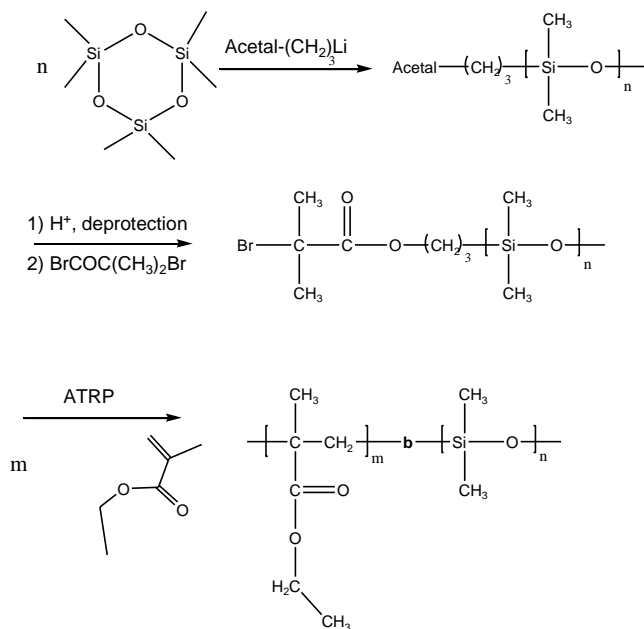


Composition:

Mn x 10 ³ DMS-EtMA	Mw/Mn (PDI)
10.0-b-23.0	1.55

Synthesis Procedure:

The reaction scheme is depicted below:



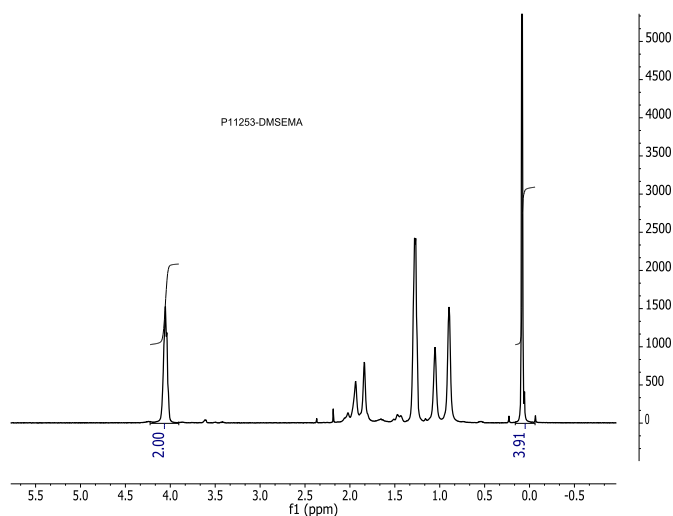
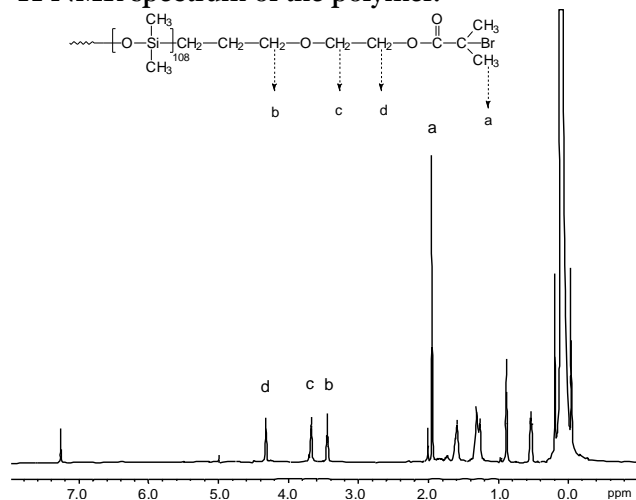
Characterization:

An aliquot of the anionic poly(methyl methacrylate) block was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI) before addition of tBuMA. The final block copolymer composition was calculated from ¹H NMR spectroscopy by comparing the peak area of the dimethyl siloxane protons near 0.08 ppm with the methylene protons of EtMA at about 4.0 ppm. Block copolymer PDI is determined by SEC.

Solubility:

The polymer is soluble in THF, CHCl₃, and DMF, not soluble in methanol, hexane and ether.

¹H NMR spectrum of the polymer:



SEC profile of the block copolymer:

P11253-DMSEtMA

