

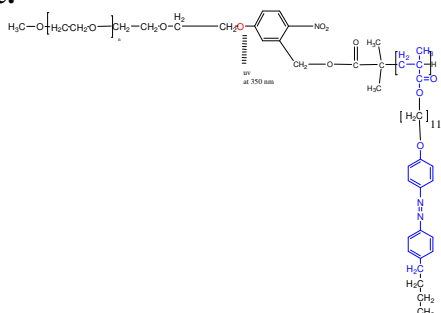
**Sample Name:** UV Cleavable (at 350nm)

**Poly(ethylene oxide-b-AZoMA)**

(AZoMA=11-[4-(4-butylphenylazo)phenoxy]-undecyl methacrylate)

**Sample #:** P6838-EOAzoMACleav

**Structure:**

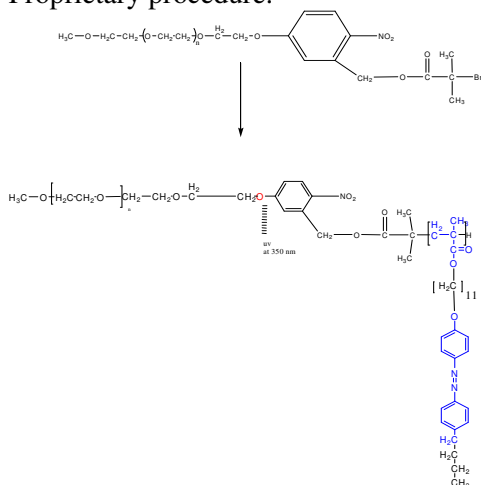


**Composition:**

Mn x 10 <sup>3</sup> PEO-b-PAzoMA	PDI
5.0-b-27.0	1.18
AZoMA rich in atactic microstructure	>60%

**Synthesis Procedure:**

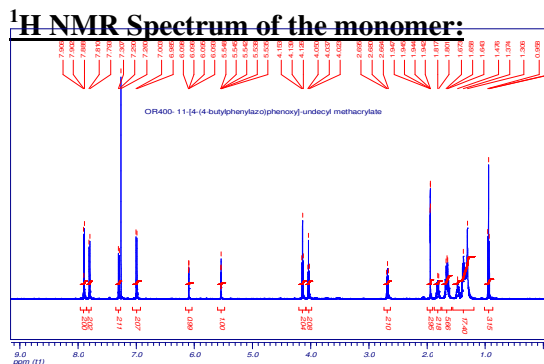
Proprietary procedure.



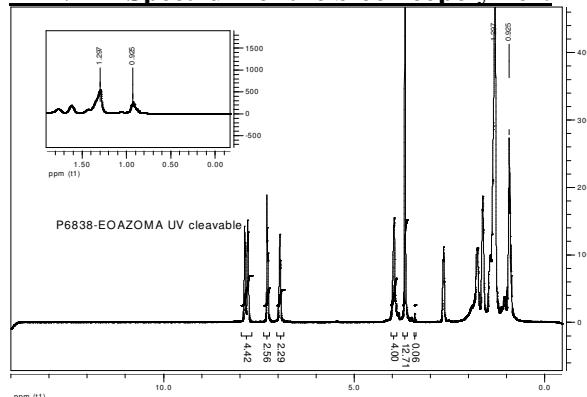
**Characterization:**

PEG-Br and final block copolymer were analyzed by size exclusion chromatography (SEC) to obtain the molecular weight of PEG and polydispersity index (PDI) for both PEG and block copolymer. The final block copolymer composition was calculated from <sup>1</sup>H-NMR spectroscopy by comparing the peak area of the ethylene oxide protons at about 3.6 ppm with the benzene ring protons at about 6-8 ppm.

**Solubility:** Poly(ethylene oxide-b-AZoMA) is soluble in THF, acetone, and chloroform and it precipitates out in hexane or methanol.



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



**SEC elugram of the block copolymer:**

P6838-EO with Nitro group (UV response at 300nm)

