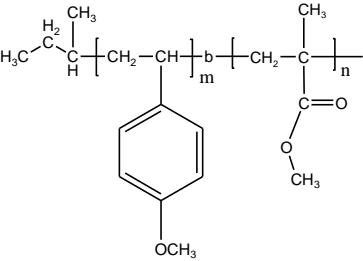


Sample Name:  
Poly(4-Methoxy styrene-b-Methylmethacrylate)

Sample #: P18302-4MeOSMMA

Structure:



Composition:

Mn x 10 <sup>3</sup> 4MeOS-b-MMA	Mw/Mn (PDI)
25.0-b-69.0	1.15

Synthesis Procedure:

Poly(4- methoxy styrene-b-MMA) is prepared by living anionic polymerization by sequence addition of 4-methoxyl styrene followed by methylmethacrylate.

**Characterization** Block was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from <sup>1</sup>H-NMR spectroscopy by comparing the peak area of the 4 methoxy styrene protons at 6.3-7.2 ppm with the peak area of 4-methoxy styrene at 3.7ppm and MMA –Methyl ester at 3.6 ppm .

**Solubility:** Polymer is soluble in THF, acetone  
**Figure:**<sup>1</sup>H NMR spectrum of the sample

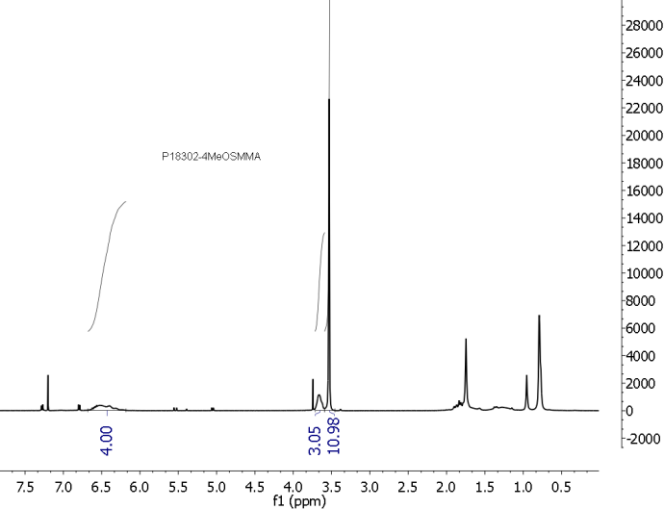


Figure: SEC profile of the block copolymer

