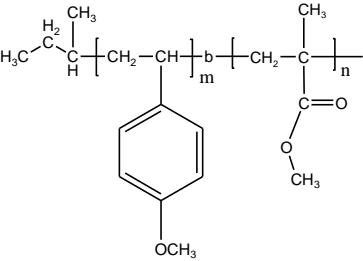


Sample Name:
Poly(4-Methoxy styrene-b-Methylmethacrylate)

Sample #: P18290-4MeOSMMA

Structure:



Composition:

Mn x 10 ³ 4MeOS-b-MMA	Mw/Mn (PDI)
15.0-b-63.0	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 ¹H-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:¹H NMR spectrum of the sample

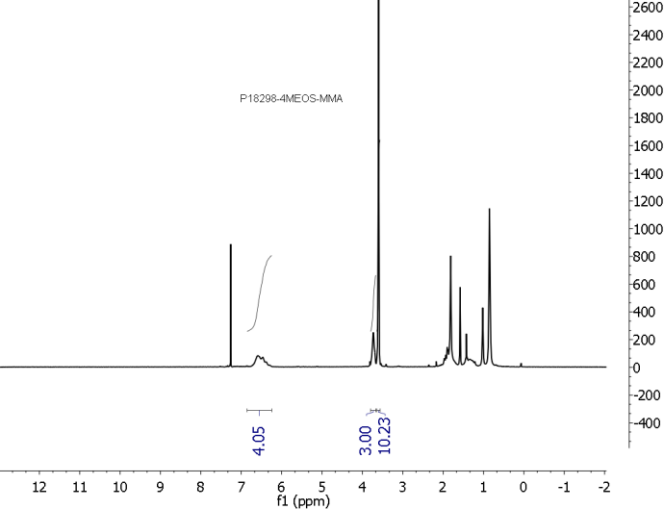
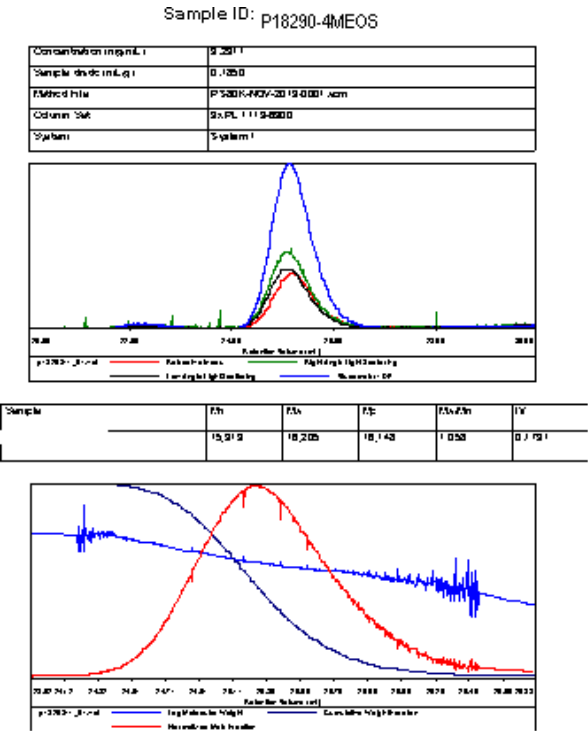


Figure: SEC profile of the block copolymer



Sample ID: P18290-4MEOSMMA

