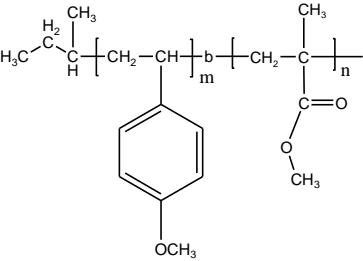


Sample Name:
Poly(4-Methoxy styrene-b-Methylmethacrylate)

Sample #: P18294-4MeOSMMA

Structure:



Composition:

Mn x 10 ³ 4MeOS-b-MMA	Mw/Mn (PDI)
22.0-b-74.0	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

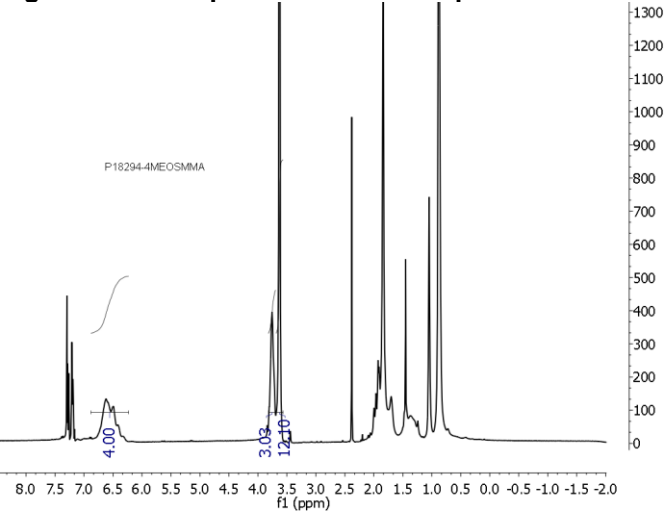
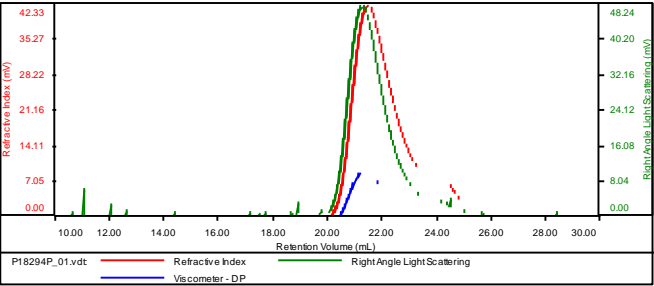


Figure: SEC profile of the block copolymer

Sample ID: P18294-4MeOSMMA

Concentration (mg/mL)	3.1640
Sample dn/dc (mL/g)	0.1170
Method File	PS80K-NOV/25-2013-0002.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18294P_01.vdt	94,674	109,115	124,085	1.153	0.4003

