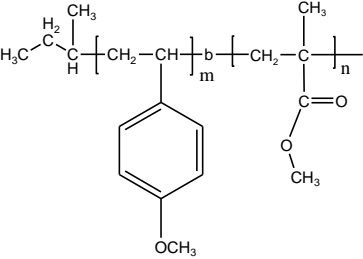


Sample Name:
Poly(4-Methoxy styrene-b-Methylmethacrylate)

Sample #: P18298-4MeOSMMA

Structure:



Composition:

Mn x 10 ³ 4MeOS-b-MMA	Mw/Mn (PDI)
15.0-b-39.0	1.13

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

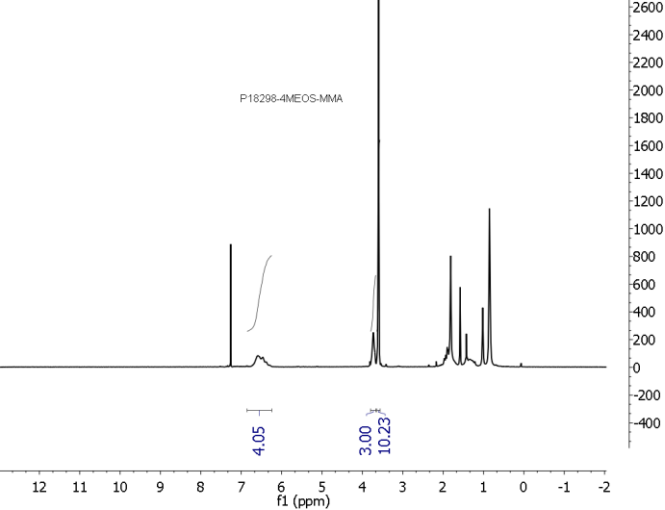
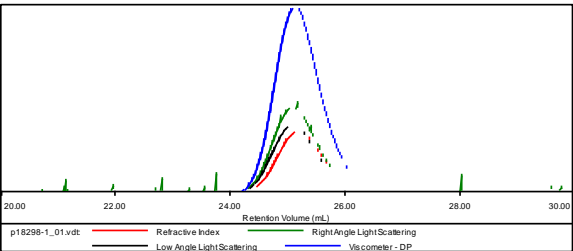


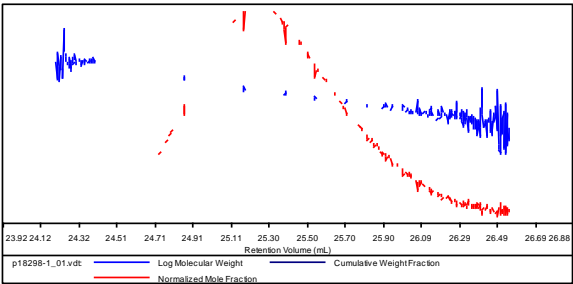
Figure: SEC profile of the block copolymer

Sample ID: P18298-4MEOS

Concentration (mg/mL)	9.2311
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-NOV-2013-0001.vcm
Column Set	3x PL 1113-6300
System	System 1

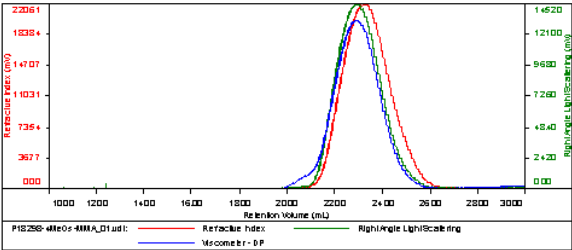


Sample	Mn	Mw	Mp	Mw/Mn	IV
p18298-1_01.vdt	15,313	16,205	16,148	1.058	0.1731



Sample ID: P18298-4MeOSMMA

Concentration (mg/mL)	19.0718
Sample dn/dc (mL/g)	0.1300
Method File	PS80K-NOV25-2013-0002.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18298-4MeOS-MMA_01.vdt	54,490	61,532	63,318	1.129	0.4328

