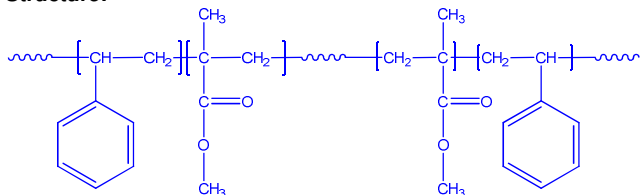


**Sample Name:**  
**Poly(styrene-b-methyl methacrylate-b-styrene)**

**Sample #:** P14508F3-SMMAS  
**Structure:**

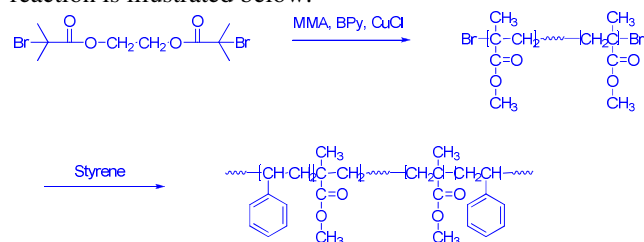


**Composition:**

Mn x 10 <sup>3</sup> (S-b-MMA-S)	PDI
80.4-b-237.0-b-80.4	1.32
Microstructure of PMMA BLOCK S:h:I contents 63: 33: 4	

**Synthesis Procedure:**

Poly(styrene-b-methyl methacrylate-b-styrene) is prepared by ATRP using difunctional initiator. The scheme of the reaction is illustrated below:



**Characterization:**

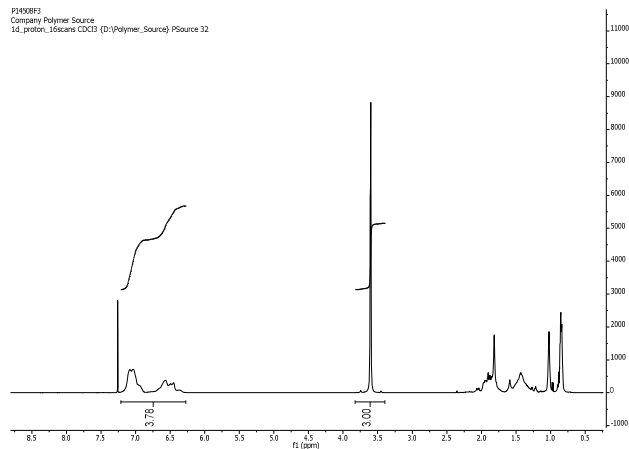
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

**Solubility:**

Polymer is soluble in THF, toluene and CHCl<sub>3</sub>. It precipitates from methanol, ethanol, water and hexanes.

**Proton NMR of Sample:**

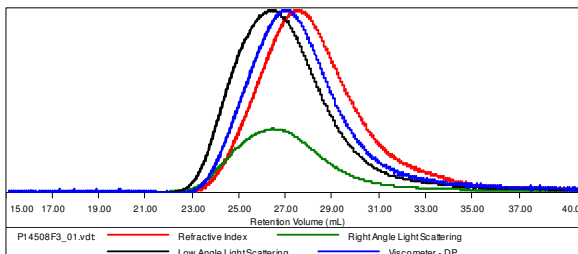
P14508F3  
 Company Polymer Source  
 1d\_proton\_16Source C1003 (D-1)Polymer\_Source PSource 32



**SEC of Sample:**

**Sample ID:** P14508F3-SMMAS

Concentration (mg/mL)	1.7266
Sample dn/dc (mL/g)	0.1140
Method File	PS80K-May-2013-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P14508F3_01.vdt	397,924	524,166	445,301	1.317	2.0469

