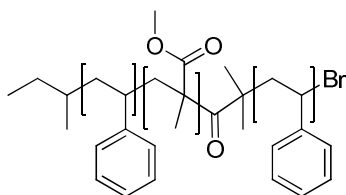


**Sample Name:** Poly(styrene-b-methyl methacrylate-b-styrene)

**Sample #:** P20099-SMMAS

**Structure:**

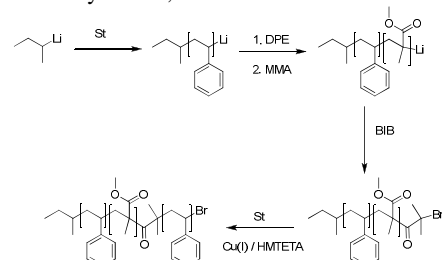


**Composition:**

$M_n \times 10^3$ St-b-MMA-b-St	PDI
6.2-13.0-2.0	1.18

**Synthesis Procedure:**

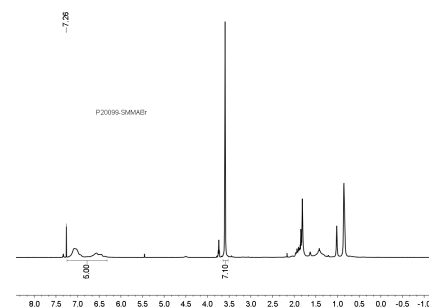
Poly[styrene-b-(methyl methacrylate)] diblock copolymer was prepared by anionic polymerization followed by terminal group modification by 2-bromo isobutyryl bromide. The third block was added by ATRP, as schematized below:



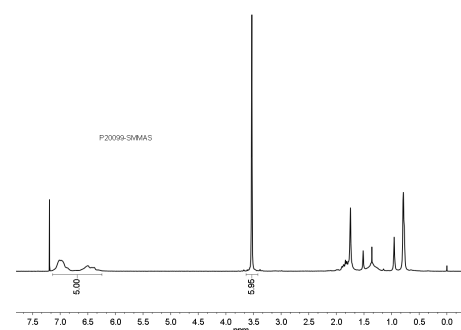
**Characterization:**

Polymer is analyzed by SEC . Composition of copolymers by NMR.

### <sup>1</sup>H NMR of the PS-b-PMMA-Br



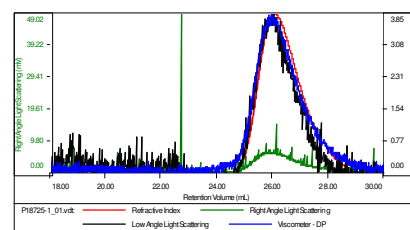
### <sup>1</sup>H NMR of the PS-b-PMMA-b-PS



### SEC of Sample:

**Sample ID:** P18725-S

Concentration (mg/mL)	6.3878
Sample chn: (mL/g)	0.1850
Method File	PS80K-Apr15-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

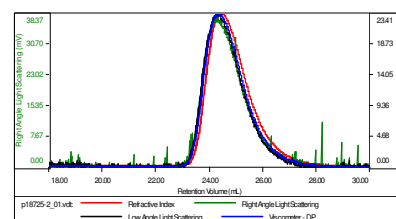


Sample	Mh	Mv	Mp	Mw/Mh	IV
P18725-1_01.vcl	6,217	6,387	5,256	1,027	0.0099

Lot# P18725-SMMABr used to extent polystyrene terminal block

**Sample ID:** P18725-SMMA

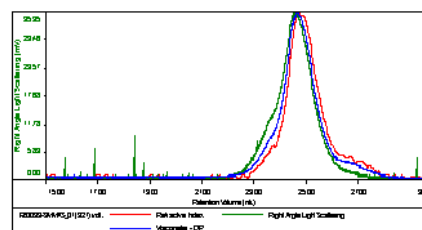
Concentration (mg/mL)	31.0360
Sample chn: (mL/g)	0.1237
Method File	PS80K-Apr15-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mh	Mv	Mp	Mw/Mh	IV
p18725-2_01.vcl	16,927	17,525	17,832	1,035	0.0621

**Sample ID:** P20099-SMMAS

Concentration (mg/mL)	1.7659
Sample chn: (mL/g)	0.1237
Method File	PS80K-Apr15-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mh	Mv	Mp	Mw/Mh	IV
P20099-SMMAS_01021.vcl	11,569	20,846	19,118	1.185	0.8238

