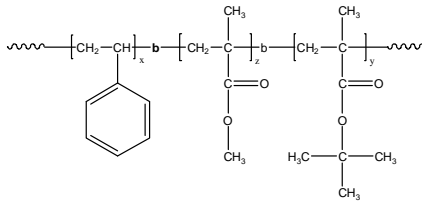


Sample Name:

**Poly(styrene-*b*-methylmethacrylate-*b*-
tert.butylmethacrylate)**

Sample # P18601-SMMAtBuMA

Structure:



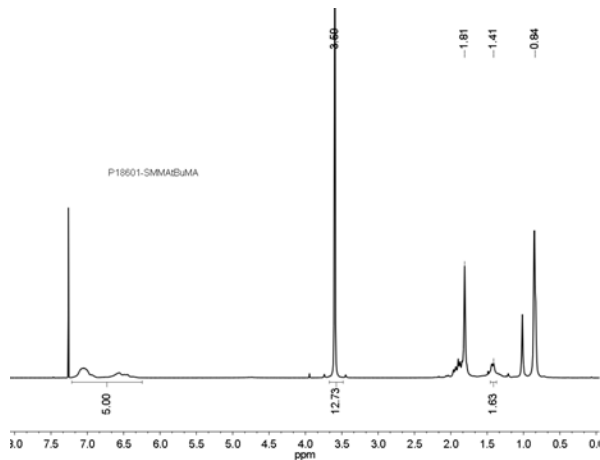
Composition:

Mn x 10 ³ S- <i>b</i> -MMA- <i>b</i> -tBuMA 13.0- <i>b</i> -57.0- <i>b</i> -3.0	PDI 1.15
T _g of MMA block: T _g of PS block:	129°C 101°C

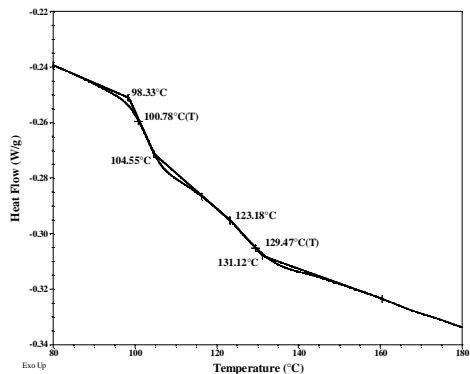
Synthesis:

The polymer was synthesized by living anionic polymerization with sequence addition of styrene, methyl methacrylate, and tert-butylmethacrylate.

¹H NMR (500 MHz, CDCl₃) of the polymer:



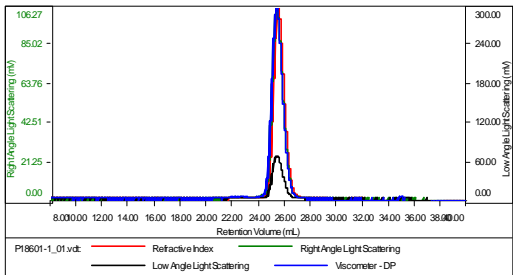
DSC thermogram for PS and MMA blocks:



SEC elugrams (PS, PS-PMMA, PS-PMMA-PtBuMA):

Sample ID: P18601-S

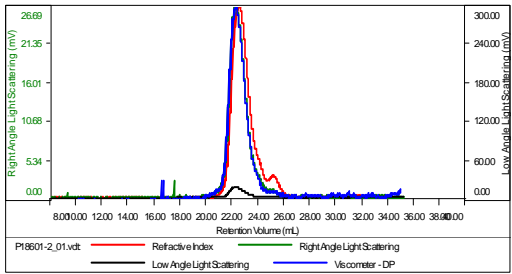
Concentration (mg/mL)	41.3963
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-June14-2014-0001.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18601-1_01.vdt	12,997	13,747	13,437	1.058	0.0406

Sample ID: P18601-SMMA

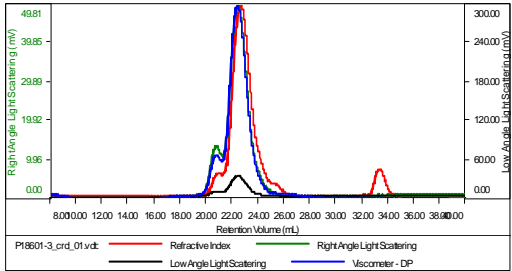
Concentration (mg/mL)	7.7114
Sample dn/dc (mL/g)	0.1100
Method File	PS80K-June14-2014-0001.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18601-2_01.vdt	70,232	78,300	79,381	1.114	0.1081

Sample ID: P18601-3-SMMAtBuMA

Concentration (mg/mL)	15.5961
Sample dn/dc (mL/g)	0.1100
Method File	PS80K-June14-2014-0001.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18601-3_ord_01.vdt	72,735	82,930	85,528	1.140	0.1077