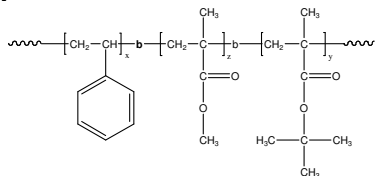


Sample Name:

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

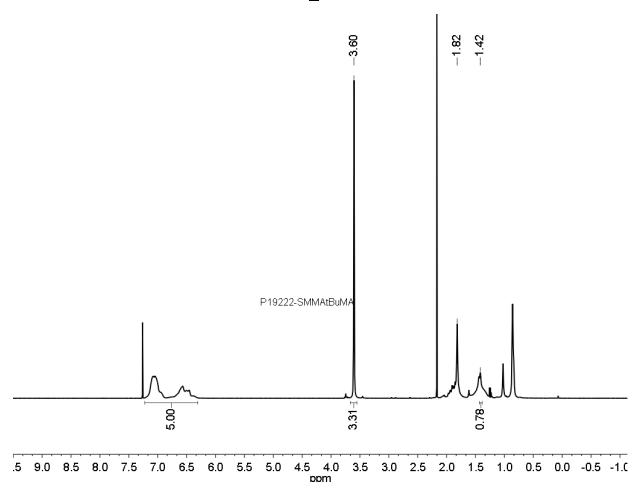
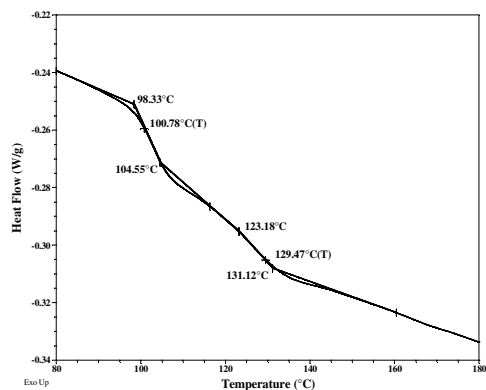
Sample # P19222-SMMAt**BuMA****Structure:****Composition:**

Mn x 10 ³ S- <i>b</i> -MMA- <i>b</i> -tBuMA	PDI
45.0- <i>b</i> -47.0- <i>b</i> -5.0	1.15

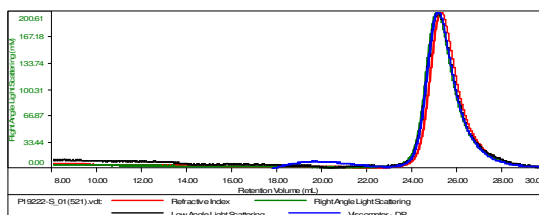
T _g of MMA block:	129°C
T _g of PS block:	101°C

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:P19222-S**

Concentration (mg/mL)	15.7161
Sample dilute (mL/g)	0.1850
Method File	PS80K-March6-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polysdispersity	Intrinsic Viscosity (dL/g)
P19222-S_01(S21).vcl	44,731	46,427	44,726	1.038	0.1954

Sample ID:P19222-SMMAt**BuMA**

Concentration (mg/mL)	7.7918
Sample dilute (mL/g)	0.1300
Method File	PS80K-March6-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

