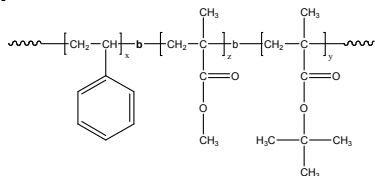


Sample Name:

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

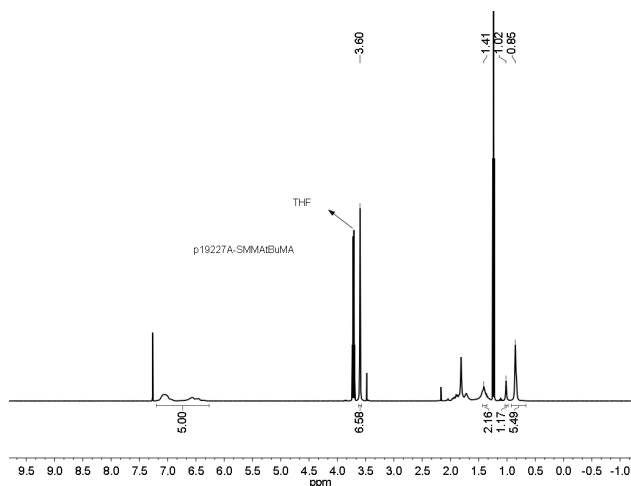
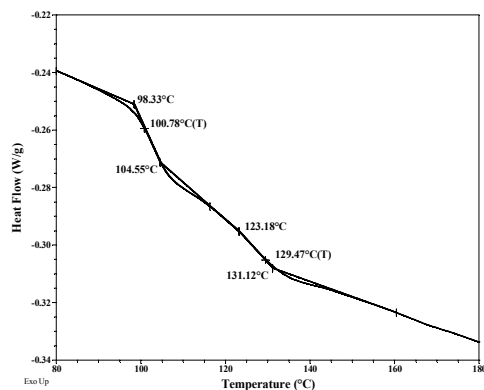
Sample # P19227A-SMMA_tBuMA**Structure:****Composition:**

Mn x 10 ³ S- <i>b</i> -MMA- <i>b</i> -tBuMA	PDI
48.5- <i>b</i> -102.0- <i>b</i> -18.0	1.09

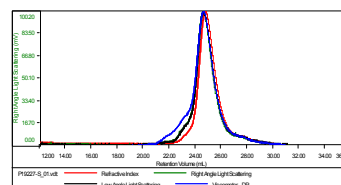
T _g of MMA block:	129°C
T _g of PS block:	101°C

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 IDP19227-S**

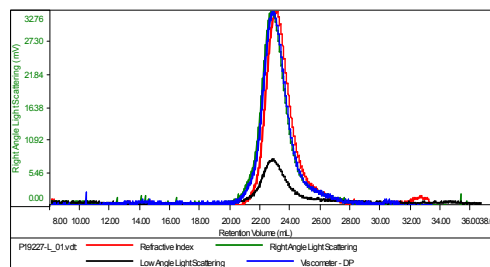
Concentration (mg/mL)	1.938
Sample ch/d: (mL/g)	0.1850
Method File	PS80K-April13-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19227-S_01.vcl	48,528	51,338	48,182	1.058	0.8467

Sample IDP19227-SMMA_tBuMA

Concentration (mg/mL)	0.4857
Sample ch/d: (mL/g)	0.1380
Method File	PS80K-April13-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19227-L_01.vcl	168,515	185,009	159,783	1.098	1.7387