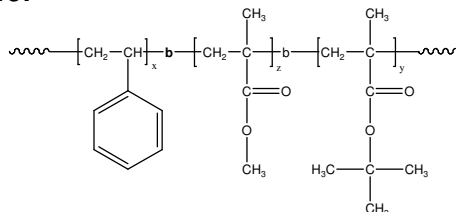


Sample Name:

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

Sample # P19220-SMMA*t*BuMA

Structure:



Composition:

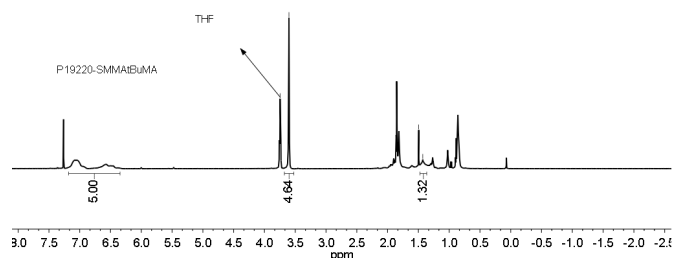
Mn x 10 ³	PDI
S- <i>b</i> -MMA- <i>b</i> - <i>t</i> BuMA	1.12
85.0- <i>b</i> -126.0- <i>b</i> -15.0	
T _g of MMA block:	129°C
T _g of PS block:	101°C

Synthesis:

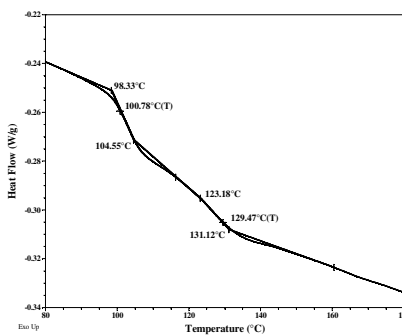
The polymer was synthesized by living anionic polymerization with sequence addition of styrene, methyl methacrylate, and *tert*-butylmethacrylate.

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

3.75
3.60
1.49
1.43



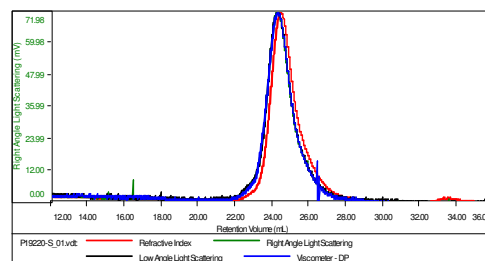
DSC thermogram for PS and MMA blocks:



SEC elugrams (PS, PS-PMMA, PS-PMMA-P*t*BuMA):

Sample IDP19220-S

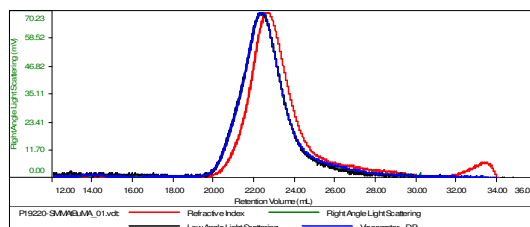
Concentration (mg/mL)	0.8644
Sample chdc (mL/g)	0.1850
Method File	PS80K-April13-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19220-S_01.vct	84,803	91,235	88,382	1.076	1.0568

Sample IDP19220-SMMA*t*BuMA

Concentration (mg/mL)	1.0626
Sample chdc (mL/g)	0.1220
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)
P19220-SMMA <i>t</i> BuMA_01.vct	226,187	253,737	236,144	1.122	1.7744