

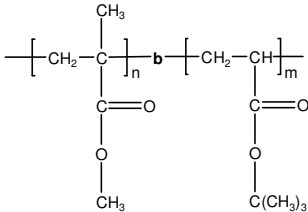
SEC of the block copolymer:

Sample Name:

Poly(methyl methacrylate-b-t-butyl acrylate)

Sample #: P18624-MMAAtBuA

Structure:



Composition:

Mn x 10 ³ PMMA-b-PtBuMA	PDI
32.3-B-6.5	1.06

Glass transition temperature at a glance

MMA block	110°C
t-BuA block	41°C

Synthesis Procedure:

Poly(methyl methacrylate-b-t-butyl acrylate) is prepared by living anionic polymerization.

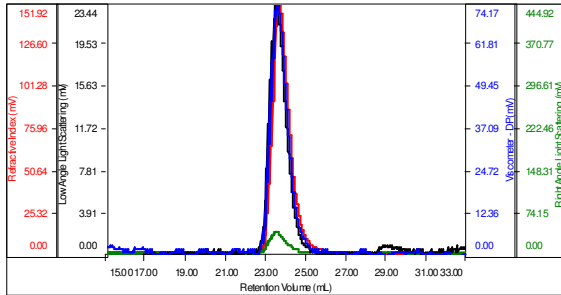
Characterization:

By size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from ¹H-NMR spectroscopy.

Thermal analysis Thermal analysis of the sample was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

Sample ID: P18624-MMA

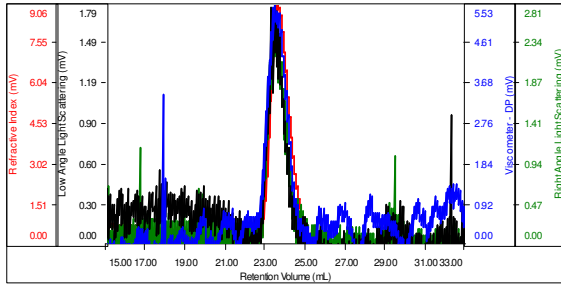
Concentration (mg/mL)	4.2711
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-March13-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18624-1_01.vdt	32,314	34,150	33,948	1.057	0.3186

Sample ID: P18624-MMA Block

Concentration (mg/mL)	1.3344
Sample dn/dc (mL/g)	0.0780
Method File	PS80K-Apr15-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
_P18624-MMAAtBuA_01.vdt	38,682	41,043	41,401	1.061	0.0889

-1.42

P18624-MMAAtBuA

