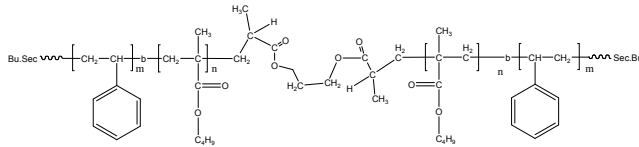


Sample Name:
Poly(Styrene-b-methylmethacrylate-b-Styrene)
(radical process)

Sample #: P11109G-SMMAS

Structure:

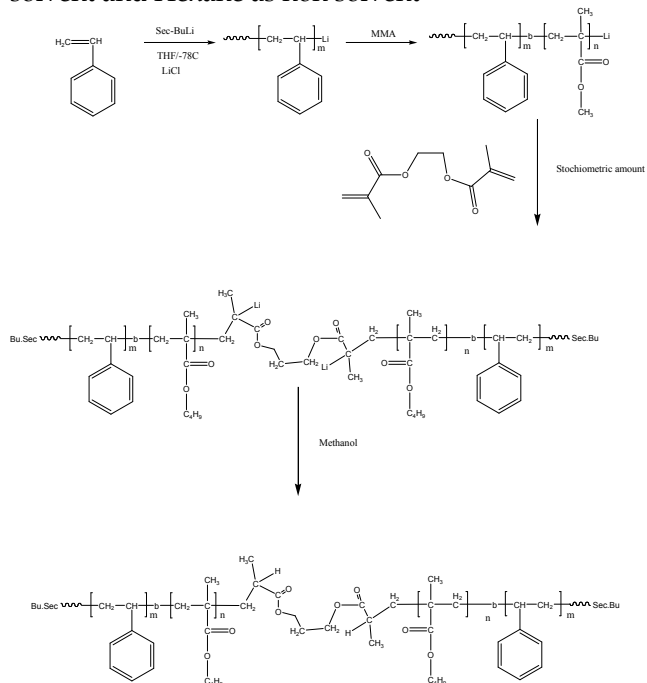


Composition:

Mn × 10 ³ (S-b-MMA-S)	PDI
3.0-b-19.0-b-3.0	1.3
Microstructure of PMMA block	S:H:I contents 59:37:4
T _g for PS block: 100 oC	T _g for MMA block: 116 °C

Synthesis Procedure:

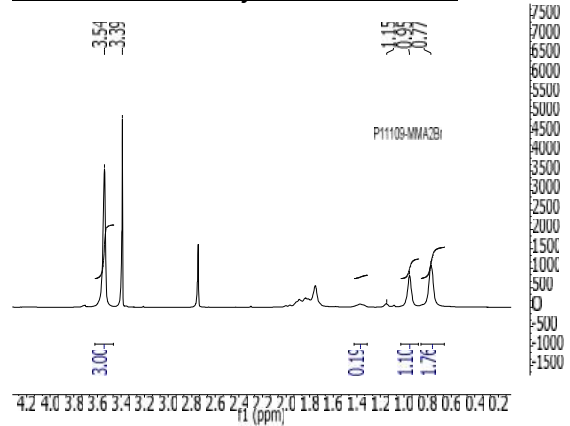
Poly(styrene-b-methylmethacrylate-b-styrene) is prepared by Anionic process and the obtained polymer was fractionated repeated time to remove unreacted diblock copolymer using Aceton-THF as solvent and Hexane as non solvent



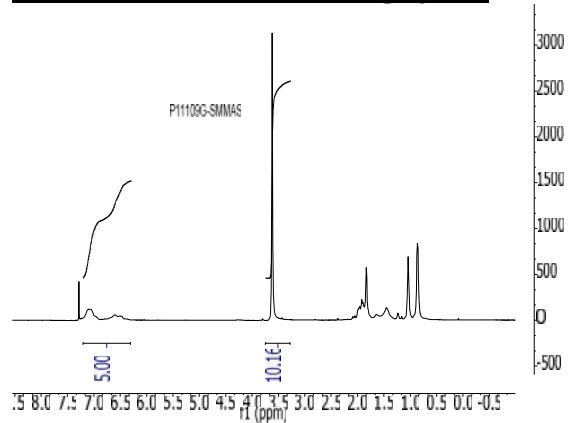
Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

¹H NMR of the Polymer: PMMA-2Br



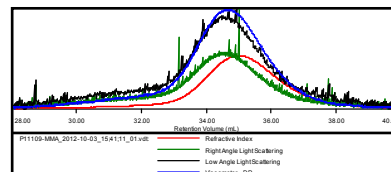
¹H NMR of SMMAS Triblock copolymer:



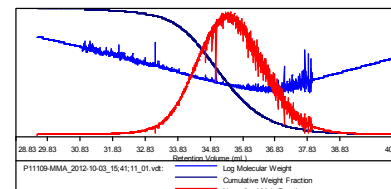
SEC of PMMA-2Br

Sample ID: P11109-MMA

Concentration (mg/mL)	14.0396
Sample dn/dc (mL/g)	0.1840
Method File	PSS0K-Oct-2012-0001.vcm
Column Set	3x PL 1113-6300
System	System 1

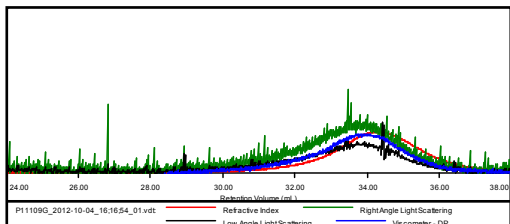


Sample	Mn (Da)	Mw (Da)	Mp (Da)	Mw/Mn	IV (dL/g)
P11109-MMA_2012-10-03_15:41:11_01.vd	18,990	24,204	18,448	1.275	0.1510

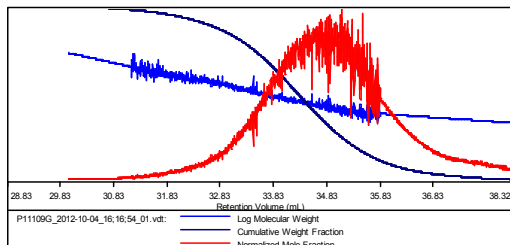


Sample ID: P11109G-SMMAS

Concentration (mg/mL)	2.2969
Sample dn/dc (mL/g)	0.1050
Method File	PS80K-Oct-2012-0001.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn (Da)	Mw (Da)	Mp (Da)	Mw/Mn	IV (dL/g)
P11109G_2012-10-04_16;16;54_01.vdt	22,247	29,437	25,109	1.323	0.1728



Reference:

S.K. Varshney, P. Kesani, N. Agarwal, J. Xin. Zhang, and M. Rafailovich. Synthesis of ABA type thermoplastic elastomers based on Polyacrylates, Macromolecules, 1999, 32, 235.