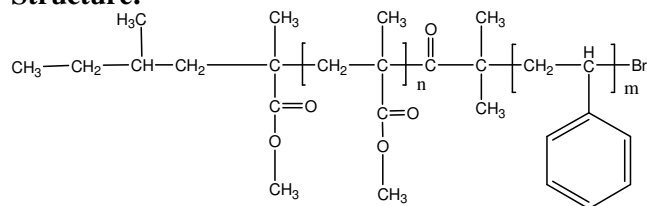


Sample Name: Bromo terminated
Poly(methyl methacrylate-b-Styrene) diblock copolymer (Anionic process and controlled radical process) PMMA : Isotactic rich
Sample #: P40015P-MMAS-Br
Structure:



Composition:

Mn × 10 ³ (MMA-b-S-br)	PDI
2.5-b-41.0	1.22

Microstructure of PMMA block	S:H:I contents 2:10:88
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T _g for PS block: 104 °C	T _g for MMA block: Not distinct
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Synthesis Procedure:

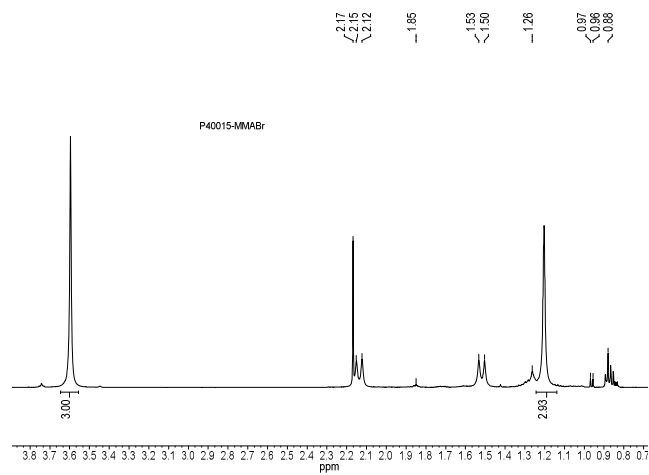
Poly(styrene-b-methylmethacrylate-b-styrene) is prepared by using anionic and controlled process. For further details see the following article:

Song, Zhengji / Pelletier, Carole / Qi, Yinghua / Ahmed, Jasim / Varshney, Sunil K. / Jafar Mazumder, M. A.

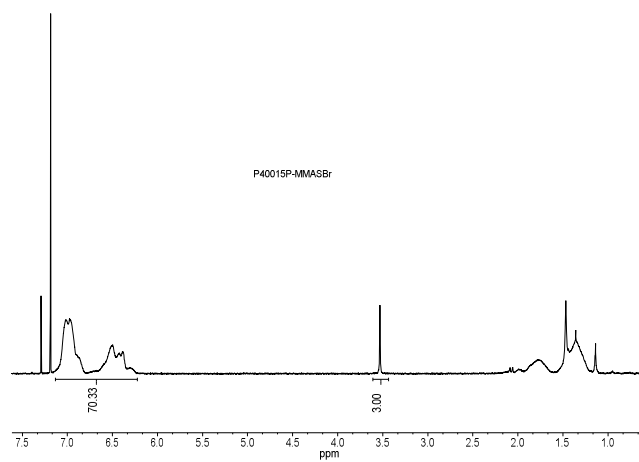
Synthesis and thermal properties of triblock copolymers of methyl methacrylate using combination of anionic and controlled radical polymerization: Poly(methyl methacrylate) center block bearing different microstructures
e-Polymers, Volume 12, Issue 1, Pages 788-802

Characterization: The polymer was characterized by SEC and ¹H NMR

¹H NMR spectrum of the MMASBr:



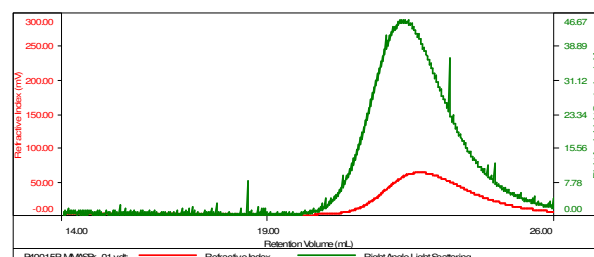
¹H NMR spectrum of the MMASBr:



SEC elugram of the polymer:

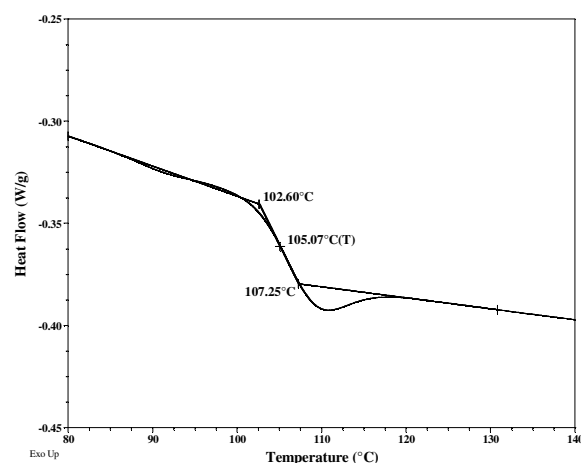
Sample ID: P40015P-MMASBr

Concentration (mg/mL)	3.7759
Sample dn/dc (mL/g)	0.1650
Method File	PS800K-4-August2016-0000.vcm
Column Set	3x PL 1113-6000
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40015P-MMASBr_01.v	44,239	54,108	1.223	0.2723	49,511

DSC thermogram for PS block:



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.