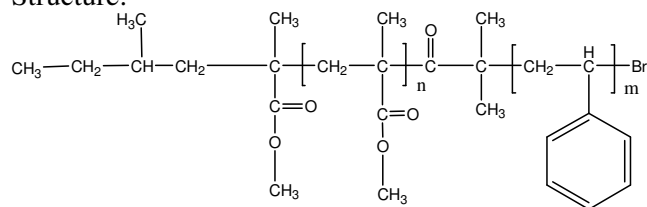


Sample Name: Bromo terminated Poly(methyl methacrylate-b-Styrene) diblock copolymer (Anionic process and controlled radical process) PMMA : Isotactic rich

Sample #: P40015G-MMAS-Br

Structure:



Composition:

Mn × 10 ³ (MMA-b-S-br)	PDI
0.6-b-18.0	1.14

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:

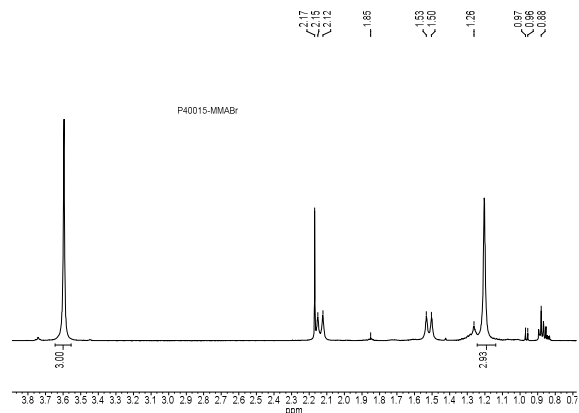
Poly(styrene-b-methylmethacrylate-b-styrene) was prepared by anionic and controlled processes. For further details see the following article:

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

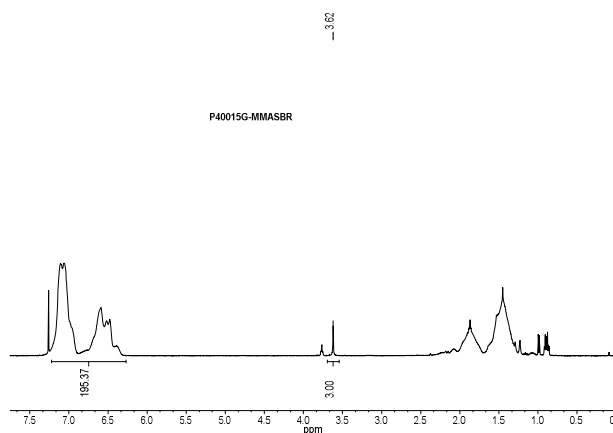
Synthesis and thermal properties of triblock copolymers of methyl methacrylate using combination of anionic and controlled radical polymerization: Poly(methyl methacrylate) center block bearing different microstructures
e-Polymers, Volume 12, Issue 1. Pages 788-802

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

¹H NMR spectrum of MMABr:



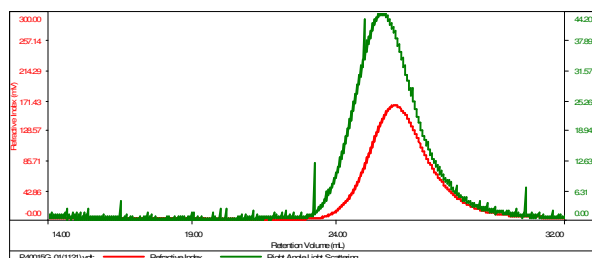
¹H NMR spectrum of MMASBr:



SEC elugram of the polymer:

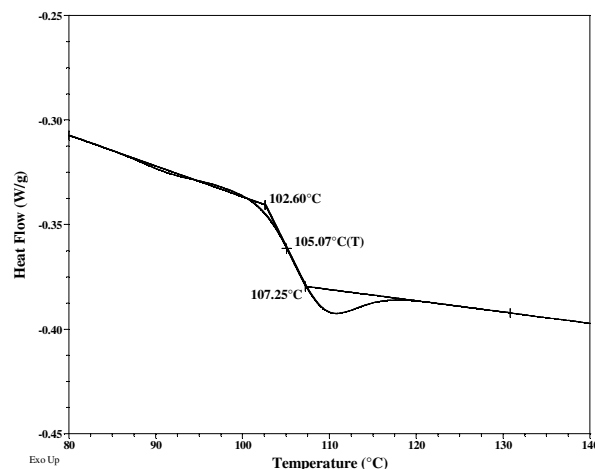
Sample ID: P40015G-MMASBr

Concentration (mg/mL)	9.7857
Sample dir/dc (mL/g)	0.1660
Method File	PS80K-4/August2016-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40015G_01(1121).vdt	18,287	20,887	1.142	0.1240	18,599

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.