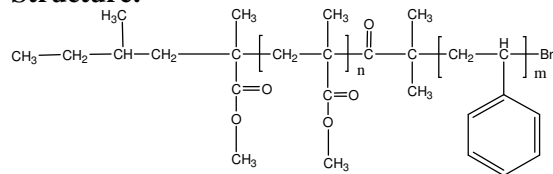


Sample Name: Bromo terminated Poly(methyl methacrylate-b-Styrene) diblock copolymer (Anionic process and controlled radical process) PMMA: Isotactic rich

Sample #: P40015R-MMAS-Br

Structure:



Composition:

Mn $\times 10^3$ (MMA-b-S-br)	PDI
35.0-b-57.0	1.45

Microstructure of PMMA block	S:H:I contents 2:10:88
------------------------------	---------------------------

T _g for PS block: 104 °C	T _g for MMA block: Not distinct
-------------------------------------	--

Synthesis Procedure:

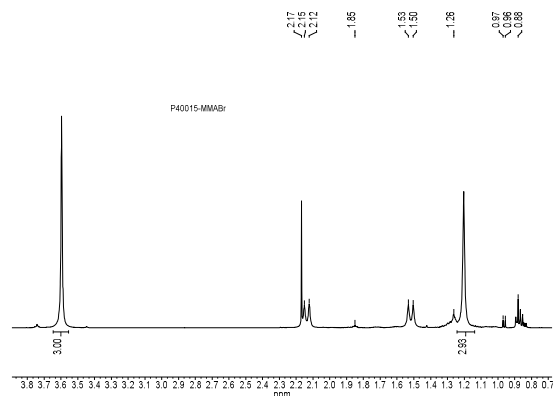
Poly(styrene-b-methylmethacrylate-b-styrene) is prepared by using anionic and controlled process. For further details see the following article:

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

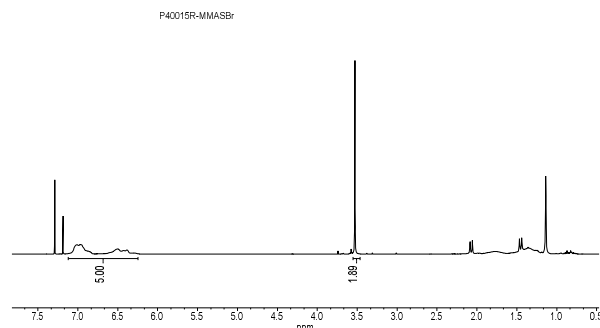
Synthesis and thermal properties of triblock copolymers of methyl methacrylate using combination of anionic and controlled radical polymerization: Poly(methyl methacrylate) center block bearing different microstructures *e-Polymers, Volume 12, Issue 1. Pages 788-802*

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

¹H NMR spectrum of MMABr:



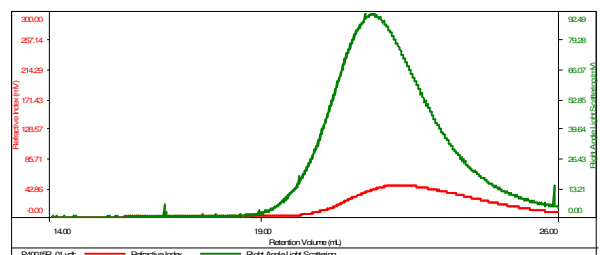
¹H NMR spectrum of MMASBr:



SEC elugram of the polymer:

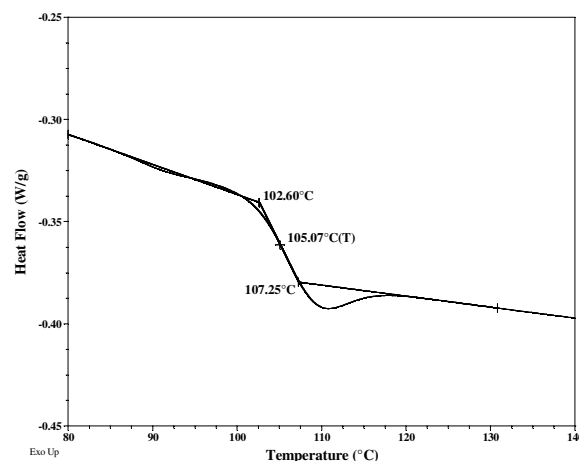
Sample ID: P40015R-MMASBr

Concentration (mg/mL)	3.9990
Sample dn/dc (mL/g)	0.1650
Method File	PS80K-4Aug.st2016-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mh (Da)	Mw (Da)	Mw/Mh	IV (dL/g)	MP (Da)
P40015R_01.vdt	92,655	134,289	1.449	0.6241	144,858

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.