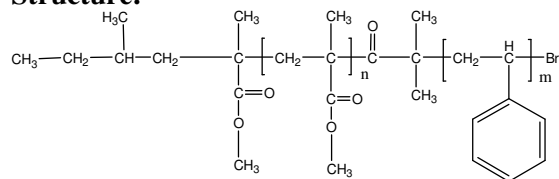


Sample Name: Bromo terminated
Poly(methyl methacrylate-b-Styrene) diblock
copolymer (Anionic process and controlled radical
process) PMMA : Isotactic rich

Sample #: P40015B-MMAS-Br

Structure:



Composition:

Mn $\times 10^3$ (MMA-b-S-br)	PDI
8.0-b-58.0	1.14

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:

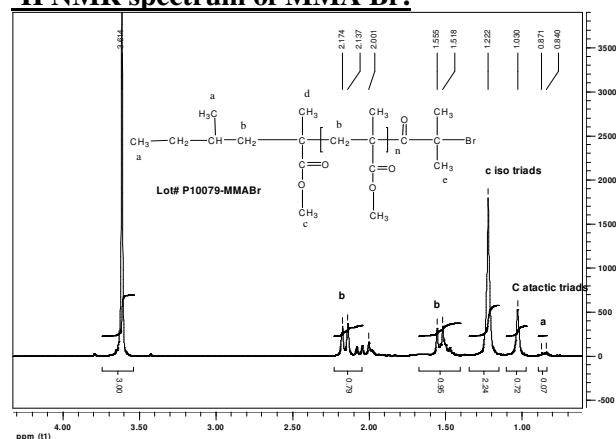
Poly(styrene-b-methylmethacrylate-b-styrene) was prepared by anionic and controlled processes. For further details see the following article:

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

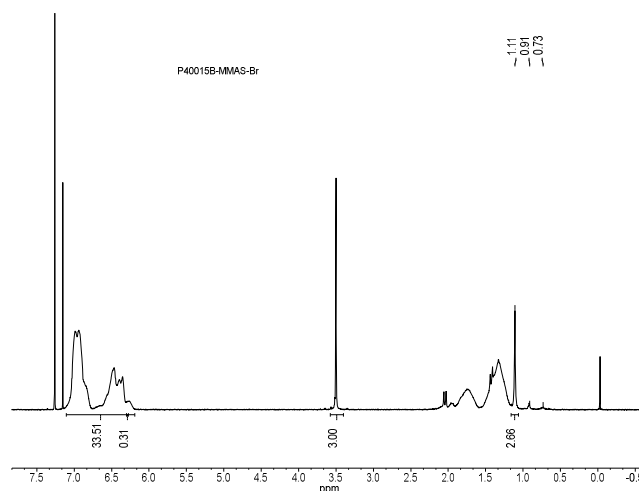
Synthesis and thermal properties of triblock copolymers of methyl methacrylate using combination of anionic and controlled radical polymerization: Poly(methyl methacrylate) center block bearing different microstructures, *e-Polymers*, Volume 12, Issue 1. Pages 788-802

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

¹H NMR spectrum of MMA Br:



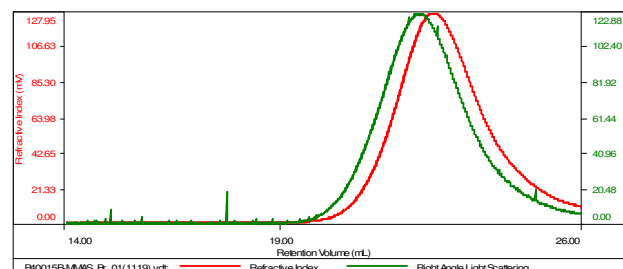
¹H NMR spectrum of the polymer:



SEC elugram of the polymer:

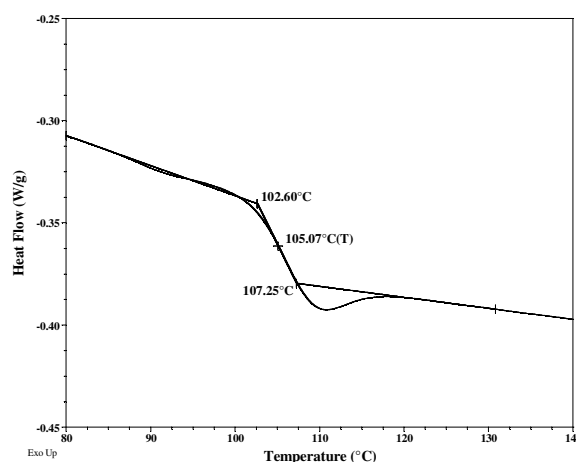
Sample ID: P40015B-MMAS-Br

Concentration (mg/mL)	7.7334
Sample dn/dc (mL/g)	0.1650
Method File	PS80K-4August2016-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40015B-MMAS-Br_01	66,636	76,571	1.149	0.3243	73,784

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.

(v.K-01)