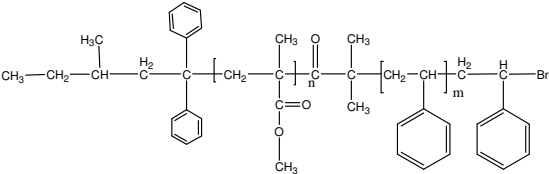


Sample Name: **Bromo terminated Poly(methyl methacrylate-b-Styrene) diblock copolymer (Anionic process and controlled radical process) PMMA : Syndiotactic rich**

Sample #: P40097C-MMASBr

Structure:



Composition:

Mn x 10 <sup>-3</sup> (MMA-b-S-br)	PDI
6.3-b-9.0	1.09
Microstructure of PMMA block	S:H:I contents 78:16:6
T <sub>g</sub> for PS block: 104 °C	T <sub>g</sub> for MMA block: Not distinct

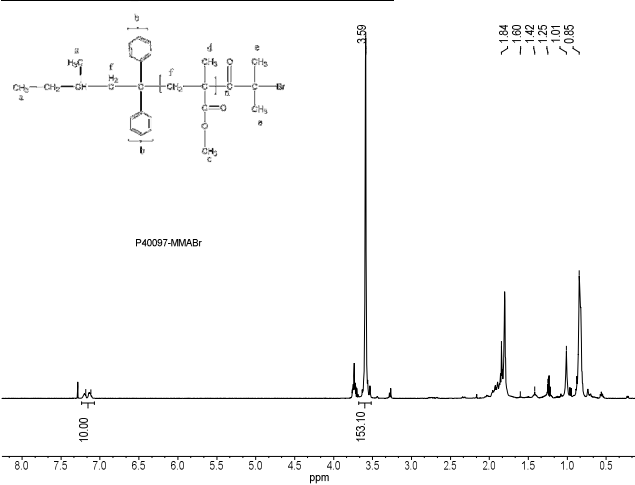
Synthesis Procedure:

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

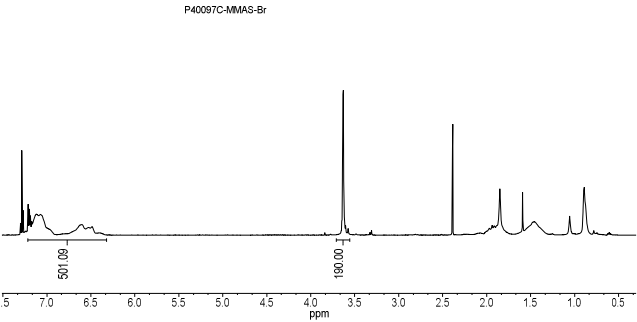
Song,Zhengji / Pelletier,Carole / Qi,Yinghua / Ahmed, Jasim / Varshney, Sunil K. / Jafar Mazumder, M. A. **Synthesis and thermal properties of triblock copolymers of methyl methacrylate using combination of anionic and controlled radical polymerization: Poly(methyl methacrylate) center block bearing different microstructures, *e-Polymers, Volume 12, Issue 1. Pages 788-802***

Characterization: The polymer was characterized by SEC and <sup>1</sup>H NMR.

<sup>1</sup>H NMR spectrum of MMABr:

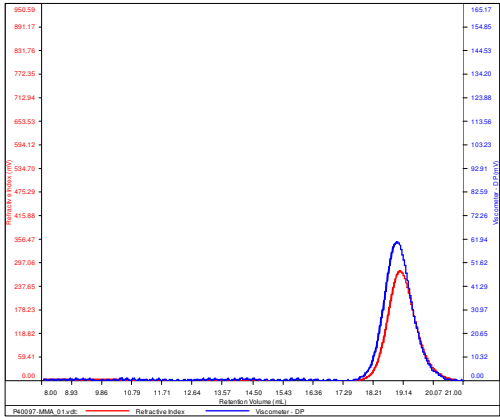


<sup>1</sup>H NMR spectrum of the PMMAS-Br:



SEC elugram of the polymer:

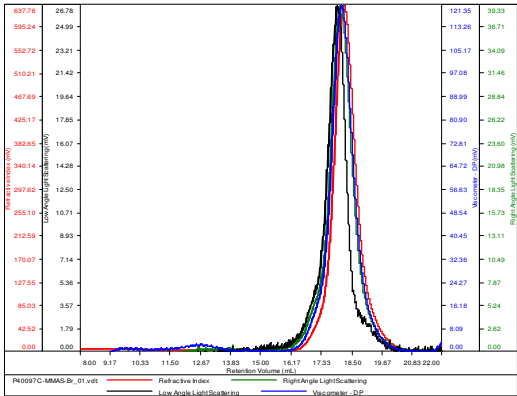
Conc (mg/mL)	11.2409
dn/dc (mL/g)	0.0650
Method	PS80k-August-08-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40097-MMA_01.vdt	6,316	6,890	6,043	1.091	0.0605

P40097C-MMAS-Br

Conc (mg/mL)	17.9010
dn/dc (mL/g)	0.1000
Method	PS80k-August-08-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40097C-MMAS-Br_01.vdt	15,717	16,961	15,648	1.079	0.0822

