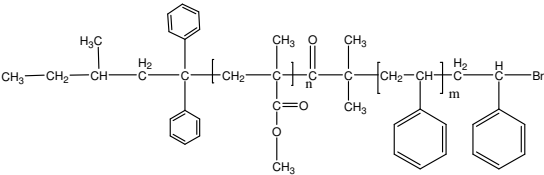


Sample Name: **Bromo terminated Poly(methyl methacrylate-b-Styrene) diblock copolymer (Anionic process and controlled radical process)**  
**PMMA : Syndiotactic rich**

Sample #: **P40097D-MMASBr**

Structure:



Composition:

Mn × 10 <sup>3</sup> (MMA-b-S-br)	PDI
6.3-b-39.0	1.27
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:

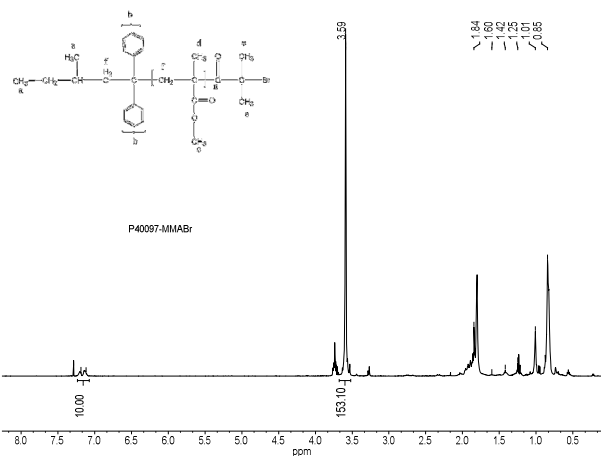
Poly(styrene-b-methylmethacrylate-b-styrene) is prepared by using anionic and controlled process. For further details see the following article:

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**

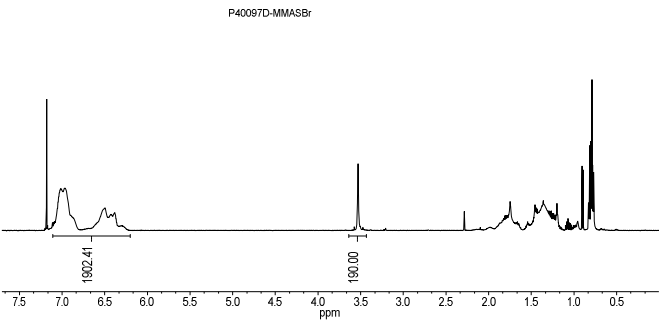
*e-Polymers, Volume 12, Issue 1. Pages 788-802*

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

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

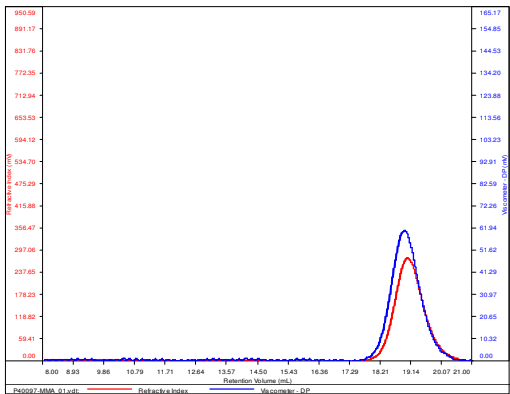


**<sup>1</sup>H NMR spectrum of the PMMAS-Br:**



**SEC elugram of the polymer:**

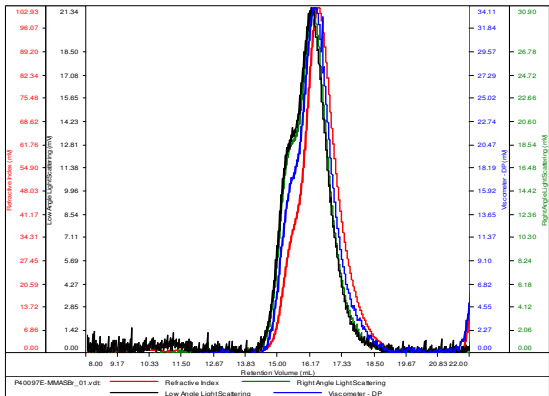
Conc (mg/mL)	11.2409
dn/dc (mL/g)	0.0650
Method	PS80k August-08-2016-0000.vcm
Solvent	DMF w/0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40097-MMAS-Br_01.vdt	6,316	6,890	6,043	1.091	0.0605

**P40097E-MMASBr**

Conc (mg/mL)	2.5390
dn/dc (mL/g)	0.1650
Method	PS80k August-08-2016-0000.vcm
Solvent	DMF w/0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40097E-MMASBr_01.vdt	41,842	52,430	44,858	1.253	0.2394