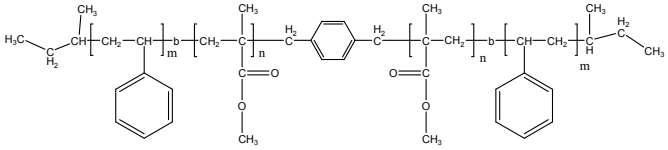
Sample Name:
Poly (Styrene-b-methyl methacrylate-b-Styrene)

Sample #: **P40168-SMMAS**
By anionic process

Structure:

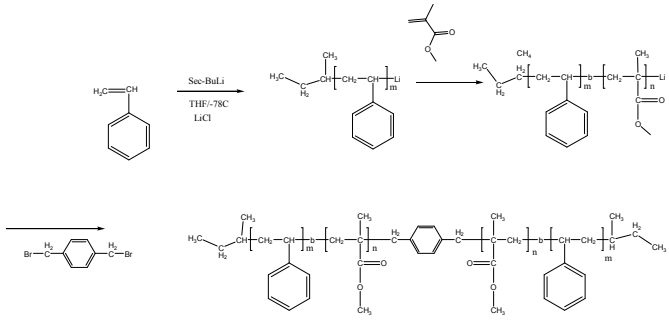


Composition:

Mn × 10^3 (S-b-MMA-S)	PDI
6.0-b-118.0-b-6.0	1.09
T_g for MMA block: 113°C	T_g for PS block: Not distinct

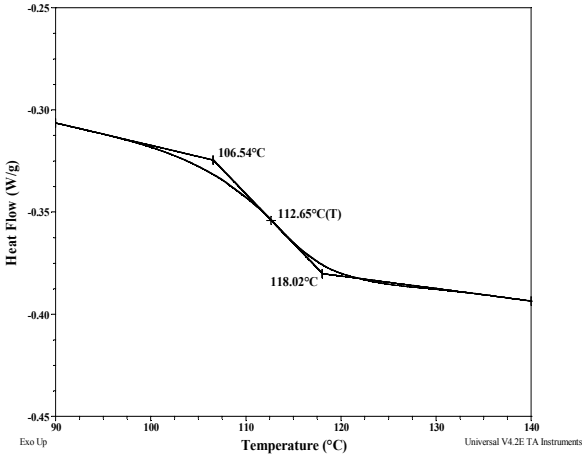
Synthesis Procedure:

The polymer was synthesized by anionic process. The scheme of the reaction is illustrated below:



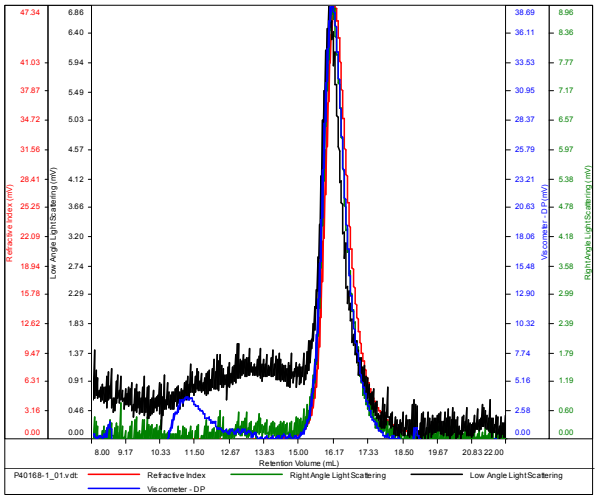
Characterization:

The polymer was characterized by ^{1}H NMR, SEC and DSC.



P40168-SMMA Before linking

Conc (mg/mL)	1.7107
dn/dc (mL/g)	0.0700
Method	PS80k-October2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS

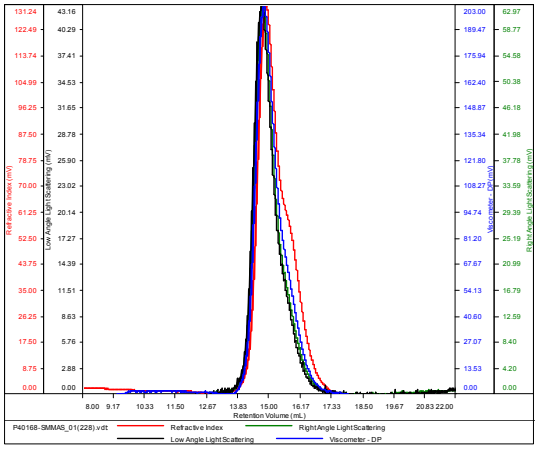


Sample	Mn	Mw	Mp	MwMn	IV
P40168-1_01.vdt	66,049	79,313	70,675	1.201	0.5203

SEC elugram of the Styrene:

P40168-SMMAS

Conc (mg/mL)	6.8974
dn/dc (mL/g)	0.0700
Method	PS80k-May-25-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	MwMn	IV
P40168-SMMAS_01(228).vdt	129,913	142,005	142,029	1.093	0.6474

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.R-01)