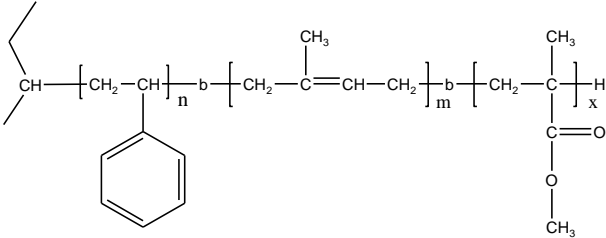


Sample Name:  
Poly(Styrene-b-isoprene-b-Methyl methacrylate)

Sample #: P40708-SIpMMA

Structure:



Composition:

Mn x 10 <sup>3</sup> S-b-IP-b-MMA	PDI
12.0-b-1.5-b-12.0	1.10
Glass transition temperature, T <sub>g</sub> :	50 °C

Synthesis:

The polymer was synthesized by anionic polymerization process.

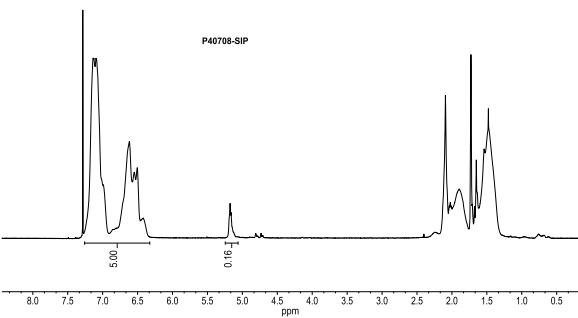
Characterization:

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR.

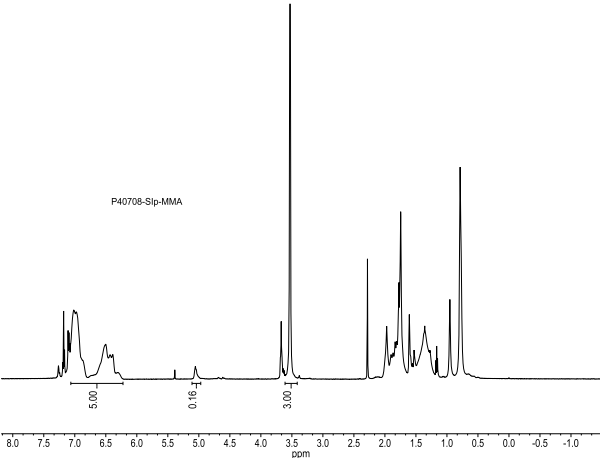
Thermal analysis:

Thermal analysis was performed on TA Instruments Q100 differential scanning calorimeter (DSC) under a nitrogen atmosphere. The glass transition temperature (T<sub>g</sub>) of the copolymer was measured at a scan rate of 10°C/min shortly after creating thermal history of the sample.

HNMR spectrum of SIP Block:



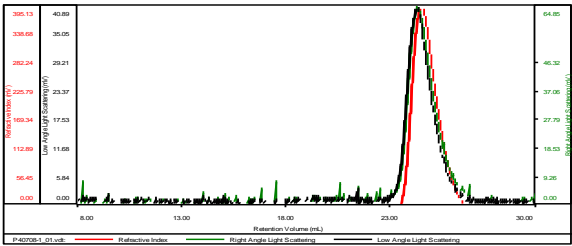
<sup>1</sup>H-NMR Spectrum of the polymer:



SEC elugram for the S block :

P40708-S

Concentration (mg/mL)	18.2587
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-august2017-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

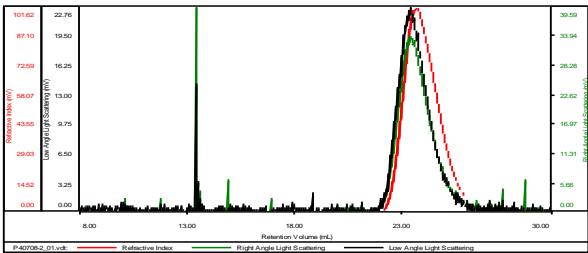


Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40708-1_01.vdt	11,902	12,633	1.061	0.0744	11,393

SEC elugram for the polymer:

P40708-SIpMMA

Concentration (mg/mL)	8.4786
Sample dn/dc (mL/g)	0.1470
Method File	PS80K-august2017-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40708-2_01.vdt	25,345	27,922	1.102	0.1261	28,878

**DSC thermogram of the triblock copolymer (2<sup>nd</sup> heating scan, 10°C/min):**

Sample: P40708\_SlpMMA  
Size: 12.0000 mg

File: P40708-SlpMMA.001

