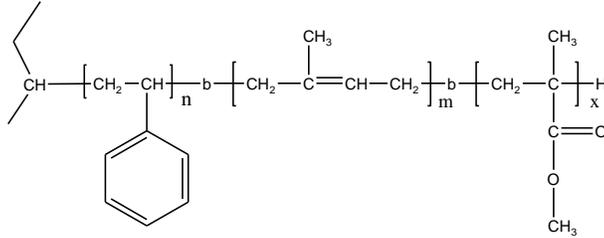


Sample Name:  
**Poly(Styrene-b-isoprene-b-Methyl methacrylate)**

Sample #: **P40702-SIPMMA**

Structure:



Composition:

Mn x 10 <sup>3</sup> S-b-IP-b-MMA	PDI
12.0-b-1.5-b-0.5	1.08
Glass transition temperature, T <sub>g</sub> :	50 °C

Synthesis:

The polymer was synthesized by anionic polymerization process.

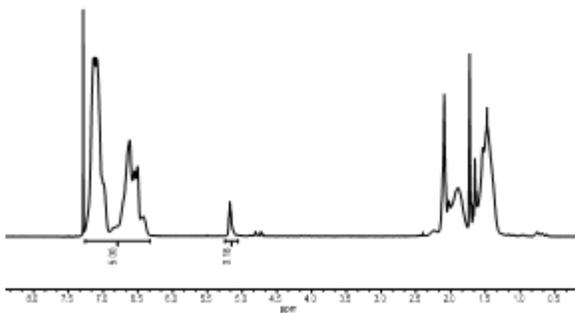
Characterization:

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

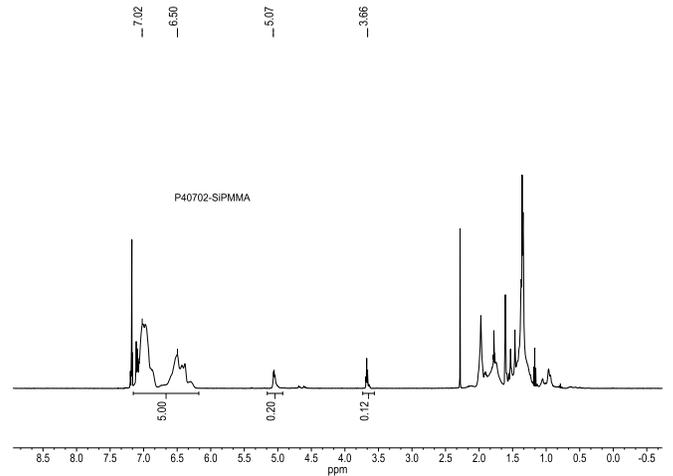
Thermal analysis:

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:**



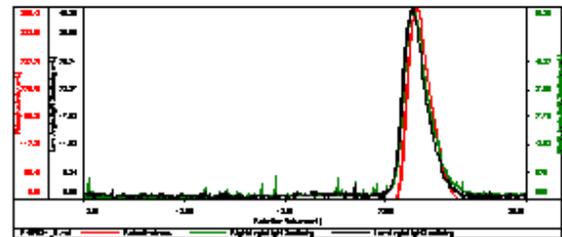
**1H-NMR Spectrum of the polymer:**



**SEC elugram for the S block :**

-S-

Concentration (mg/mL)	10.250F
Sample dried (mg)	0.920
Method File	F2004-04aug2010-0000.vnm
Column Set	3x PL + 1x PL300
Solvent	THF



Sample	ln (Da)	ln(Da)	ln(Mn)	IV(DL/g)	Mp (Da)
P40702-01.dat	11,002	12,033	1.001	0.0744	11,303