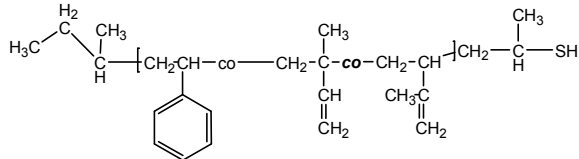


**Sample Name:**  
**Thiol end functionalized Random Copolymer**  
**Poly (styrene-co-isoprene)**  
**Sample #: P19409-SIpranSH**

**Structure:**



**Composition:**

Styrene : 65.00 mol%

Mn x 10 <sup>3</sup> PS-co-PIp	PDI
46.0	1.18
T <sub>g</sub> for random polymer	19 oC
% disulfide linkage	<10%

**Synthesis Procedure:**

By anionic process.

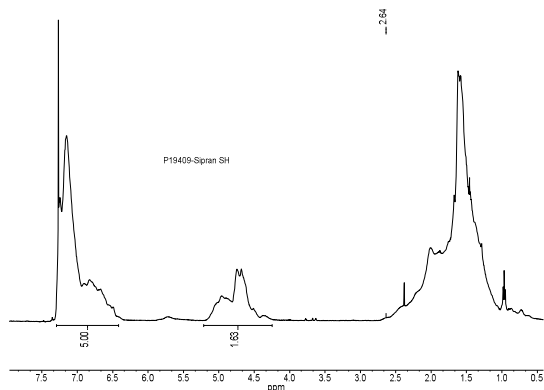
**Characterization:**

The polymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The copolymer composition was calculated from <sup>1</sup>H-NMR spectroscopy.

**Thermal analysis:**

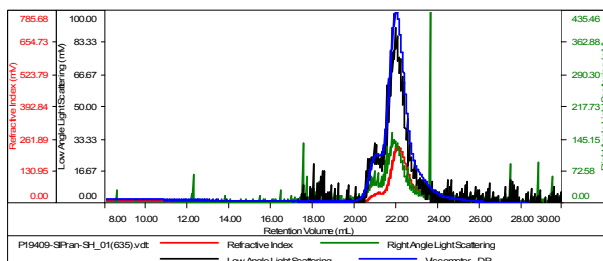
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T<sub>g</sub>).

**H NMR:**



**SEC of the random copolymer:**  
**Sample ID: P19409-SIpranSH**

Concentration (mg/mL)	1.5749
Sample dn/dc (mL/g)	0.1570
Method File	PS80K-June30-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19409-SIpranSH_01(635).vdt	45,295	53,257	45,873	1.176	2.0156

**Thermogram of the sample:**

