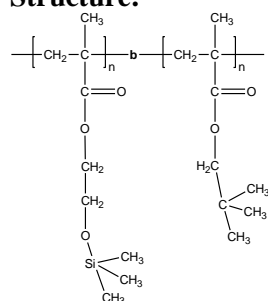


**Sample Name:** Poly(Trimethylsiloxy 2- ethyl methacrylate-b-Neopentyl methacrylate)

**Sample #:** P40971-HEMATMSNPMA

**Structure:**



**Composition:**

Mn $\times 10^3$ HEMA-TMS-b-NPMA	PDI
10.5-b-205.0	1.02
T <sub>g</sub> for NPMA block:	119°C

**Synthesis Procedure:**

Polymer was synthesized by GTP polymerization process.

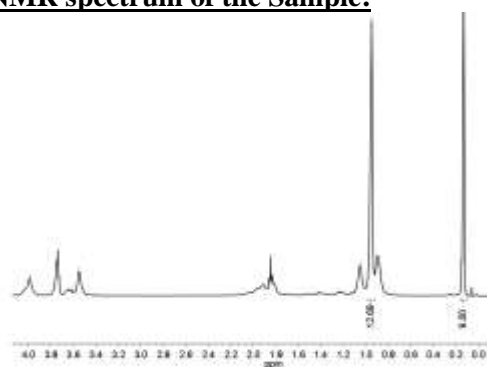
**Characterization:**

Polymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from HNMR analysis.

**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>).

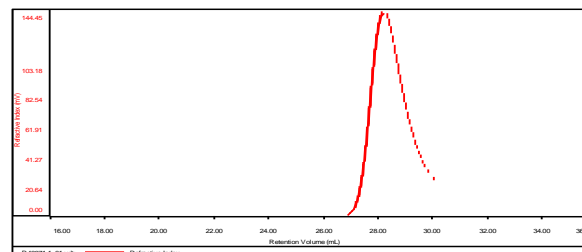
**HNMR spectrum of the Sample:**



**SEC elugram of the HEMATMS block:**

**P40971-1**

Concentration (mg/mL)	9.3962
Sample dn/dc (mL/g)	0.0840
Method File	PS80K_2018-02-21-redo-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

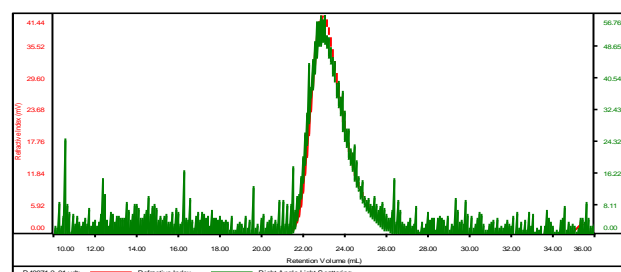


Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	MP (Da)
P40971-1_01.vdt	10,731	12,200	1.137	0.0736	9,242

**SEC elugram of the block copolymer:**

**P40971-2**

Concentration (mg/mL)	3.0116
Sample dn/dc (mL/g)	0.0840
Method File	PS80K_2018-02-21-redo-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	MP (Da)
P40971-2_01.vdt	214,828	219,132	1.020	0.9829	200,967

**DSC thermogram for NPMA block:**

