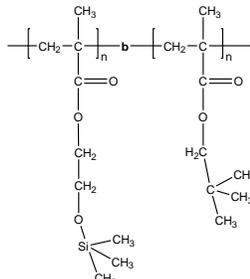


**Sample Name:** Poly (Trimethylsiloxy 2- ethyl methacrylate-b-Neopentyl methacrylate)

**Sample #:** P40872-HEMATMSNPMA

**Structure:**



**Composition:**

Mn × 10 <sup>3</sup> HEMA-TMS-b-NPMA	PDI
6.0-b-117.0	1.06
T <sub>g</sub> for NPMA block:	119°C

**Synthesis Procedure:**

Polymer was synthesized by GTP polymerization process.

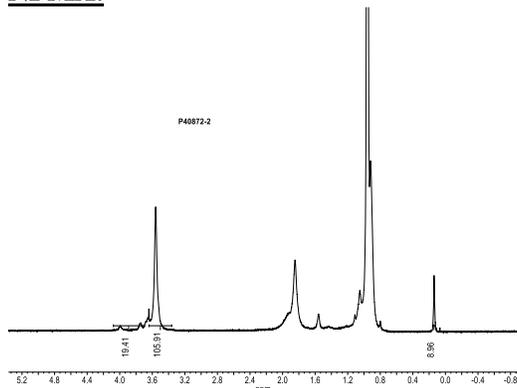
**Characterization:**

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>).

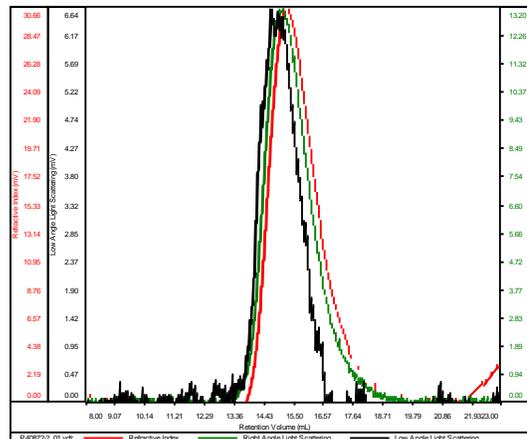
**<sup>1</sup>H NMR (500 MHz, in CdCl<sub>3</sub>) of HEMATMS-NPMA:**



**SEC elugram of the polymer:**

P40872-2

Conc	3.9741
dn/dc	0.0650
Solvent	DMF w/ 0.023M LiBr
Flow Rate	0.7000
Method	PS80K-04Dec2017-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40872-2_01.vdt	122,596	129,989	127,856	1.060	0.2619

**DSC thermogram for NPMA block:**

