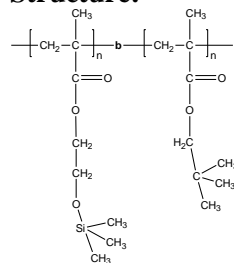## Sample Name: **Poly (Trimethylsiloxy 2- ethyl methacrylate-b-Neopentyl methacrylate)**

Sample #: **P40878A-HEMATMSNPMA**

Structure:

Composition:

Mn × 10³ HEMA-TMS-b-NPMA	PDI
4.0-b-44.0	1.11
T_g for NPMA block:	119ºC

Synthesis Procedure:
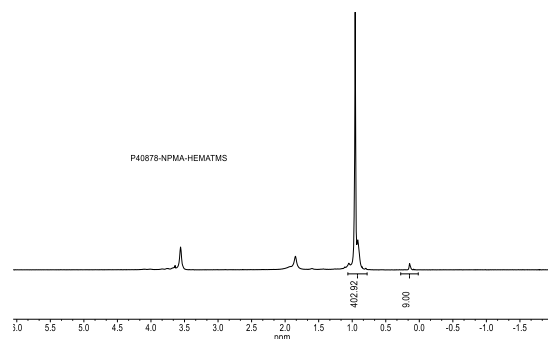Polymer was synthesized by GTP polymerization process.

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 10ºC/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_g).
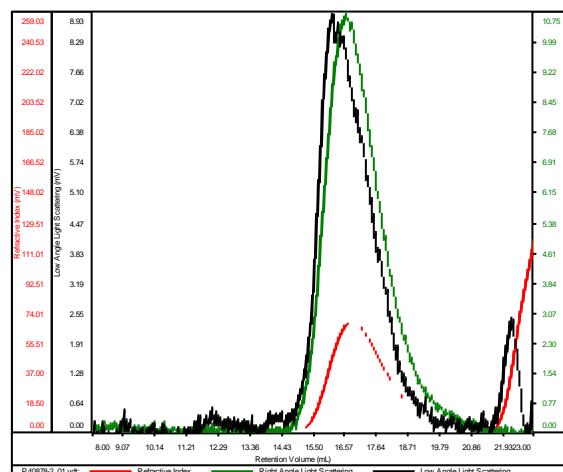**¹H NMR (500 MHz, in CdCl3) of HEMATMS-NPMA:**

SEC elugram of the polymer:

P40878-NPMA-HEMA

Conc	10.1607
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
P40878-2_01.vdt	47,980	53,366	46,354	1.112	0.1527

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