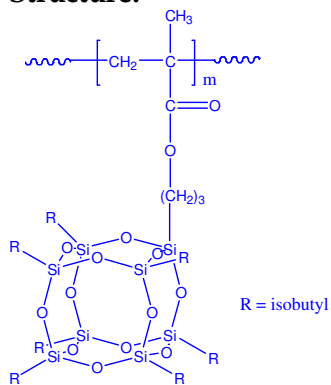
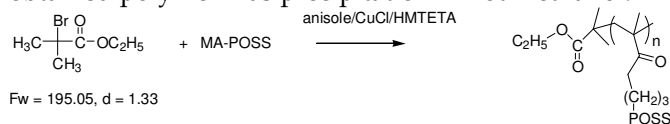


Sample Name:**Poly(Isobutyl-POSS methacrylate)****Sample #:** P14023-POSSisoBuMA**Structure:****Composition:**

$M_n \times 10^3$ POSSMA	PDI
10.0	1.20
T_m (°C): 119	T_c (°C): 65

Synthesis Procedure: Poly(isobutyl-POSS methacrylate) polymer is synthesized by living anionic or controlled radical of by GTP polymerization. The obtained polymer was precipitation in hot methanol.

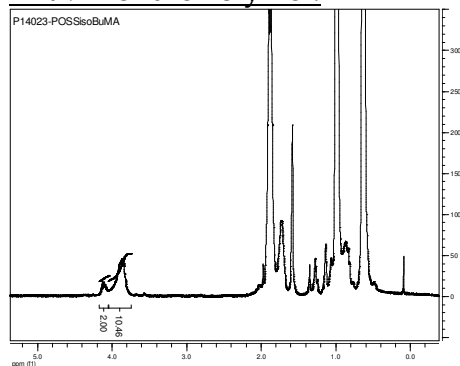
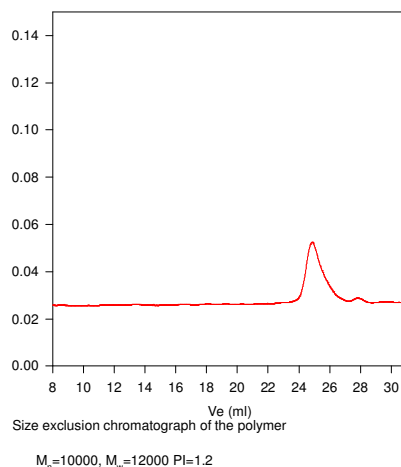
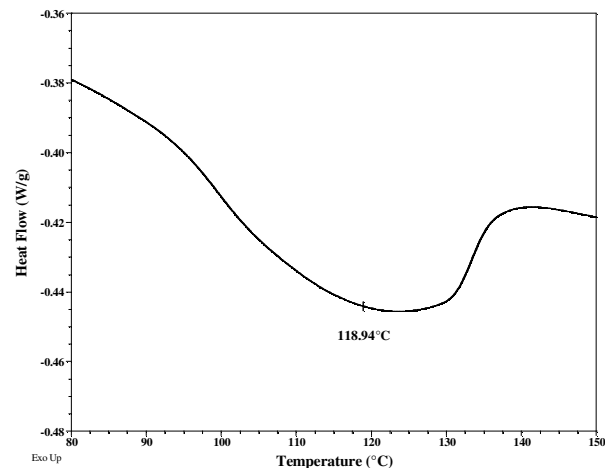


Characterization: Polymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI).

Thermal analysis of the P9708A-MMAPOSSMA

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The melting temperature (T_m) was taken as the maximum of the endothermic peak where as the crystallization temperature (T_c) was considered as the minimum of the exothermic peak.

Solubility: Polymer is soluble in THF, toluene. It is precipitated into methanol.

HNMR of the Polymer:**SEC of the block copolymer:****P14023-POSSisoBuMA****Melting curves for the sample:****Crystallization curve:**