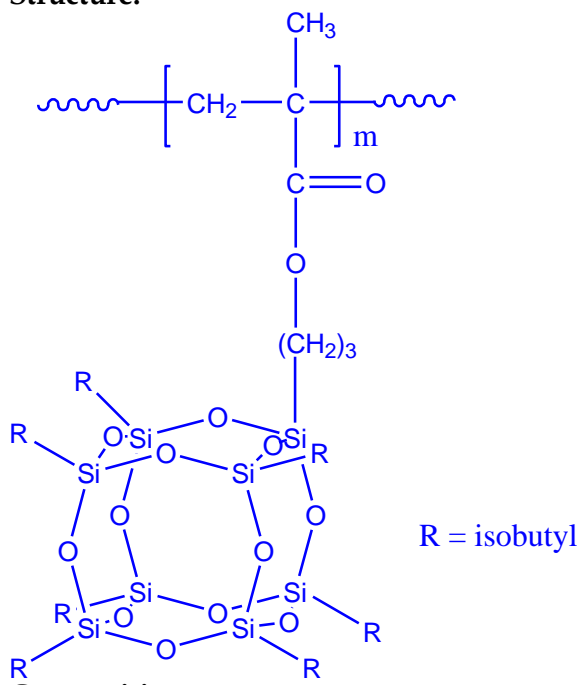


Sample Name:
Poly(Isobutyl-POSS methacrylate)
Sample #: P9707-POSSMA
Structure:



Composition:

$M_n \times 10^3$ POSSMA	PDI
8.0	1.15
T_m (°C): 119	T_c (°C): 65

Synthesis Procedure: Poly(isobutyl-POSS methacrylate) polymer is synthesized by living anionic 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).

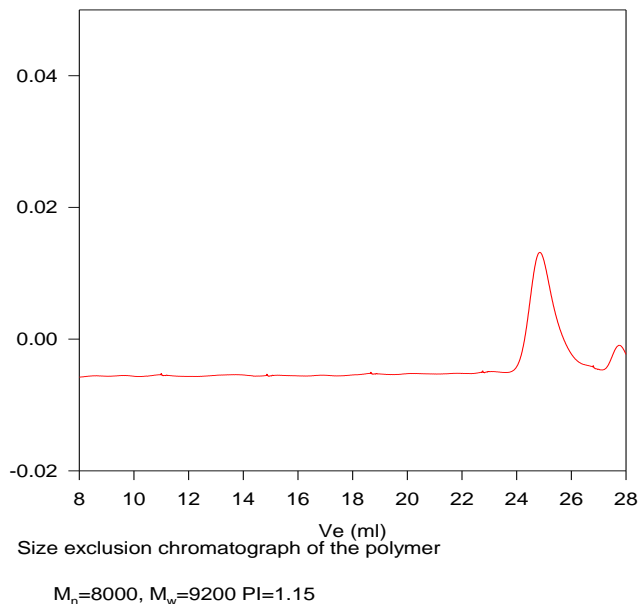
Thermal analysis of the P9708A-MMAPOSSMA

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 whereas the crystallization temperature (T_c) was considered as the minimum of the exothermic peak.

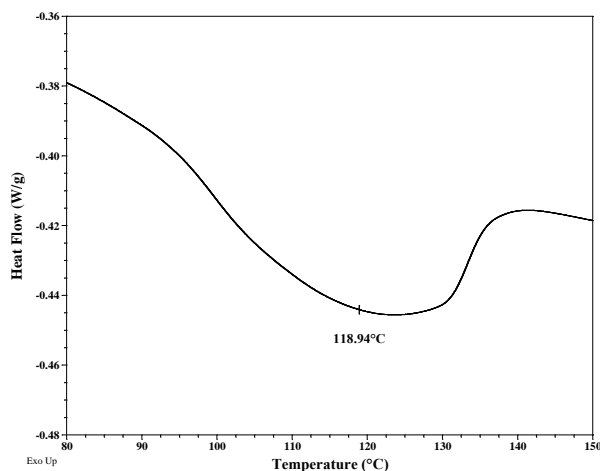
Solubility: Polymer is soluble in THF, toluene. It is precipitated into methanol.

SEC of the block copolymer:

P9707-POSSMA



Melting curves for the sample:



Crystallization curve:

