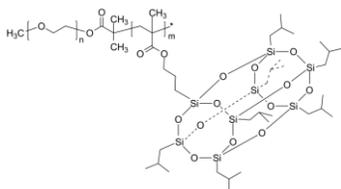


Sample Name:

Poly (ethylene oxide)-b-poly (heptaisobutyl octasilsesquioxane [POSS] propyl methacrylate)

Sample #: **P14019-EOPOSSisoBuMA**

Structure:



Composition:

Mn x 10 ³ PEO-b-POSSisoBuMA	PDI
11.0-b-4.0	1.25

Synthesis Procedure:

Polymer is synthesized by controlled radical polymerization process.

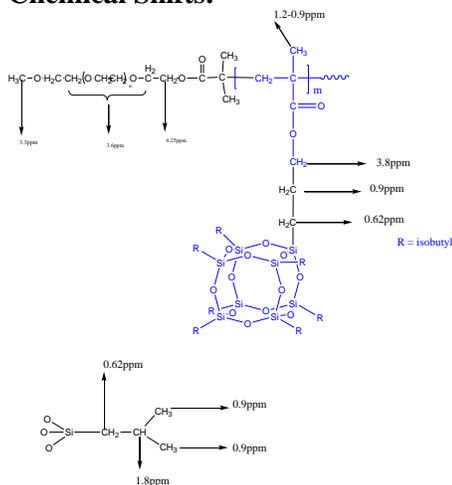
Purification of the polymer:

The un-reacted PEG can be removed by stirring the polymer in hot water/Methanol. The obtained polymer dissolved in CHCl₃/toluene and pass through the column packed with silica. The polymer was recovered by precipitation in cold ether/hexane mixture.

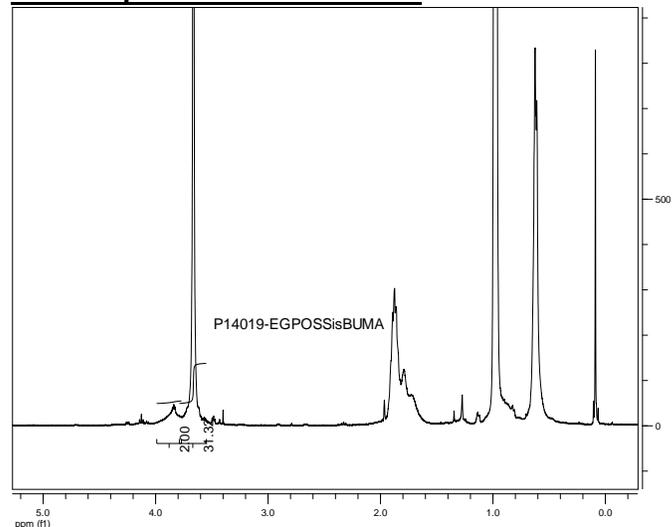
Solubility:

Polymer is soluble in CHCl₃, THF and toluene. The polymer precipitated out from hexane.

Chemical Shifts:

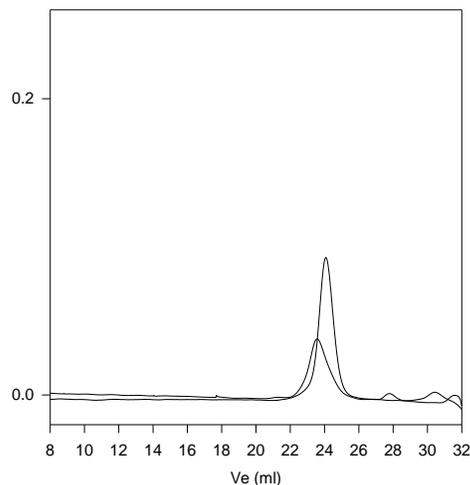


HNMR spectrum of the Product:



SEC of the block copolymer:

P14019- EOPOSSisoBuMA



Size exclusion chromatography: