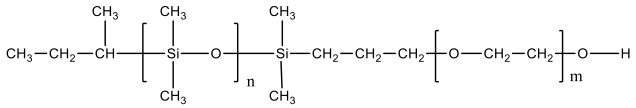
Sample Name:
Poly(dimethyl siloxane -b- ethylene oxide)

Sample #: **P42619-DMSEO**

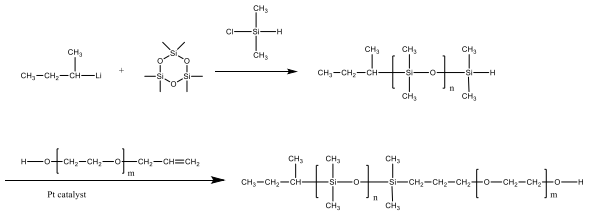
Structure:



Composition:

Mn x 10^3 PDMS-b-PEO	PDI
0.90-b-1.5	1.14
Physical appearance at RT	Solid soft white color material

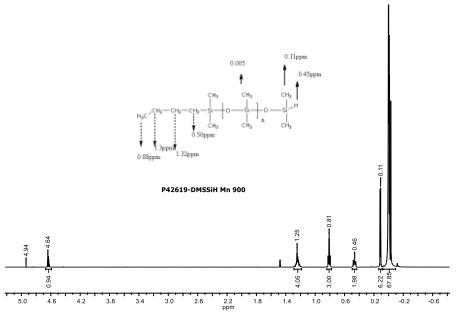
Synthesis Procedure:
The polymer is prepared by living anionic polymerization of hexamethyl cyclotrisiloxane followed by hydrosililation reaction with ally PEO using Pt catalyst. The reaction scheme is shown below:



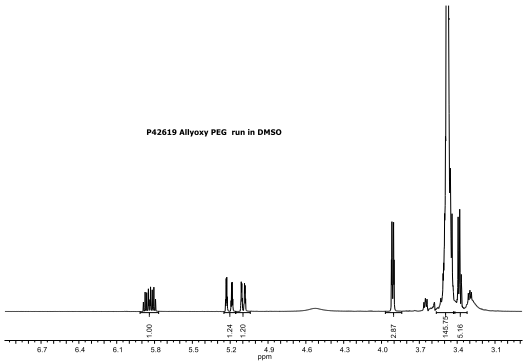
Characterization:
The product was characterized by size exclusion chromatography (SEC) and ^{1}H-NMR data analysis.

Solubility:
Poly(dimethyl siloxane -b- ethylene oxide) is soluble in THF, CHCl3 and methanol.

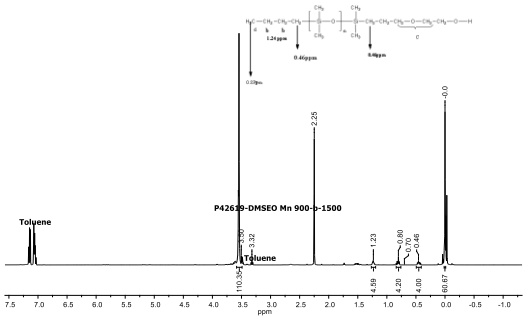
^{1}H-NMR spectrum of PDMS-SiH run in CDCl3:

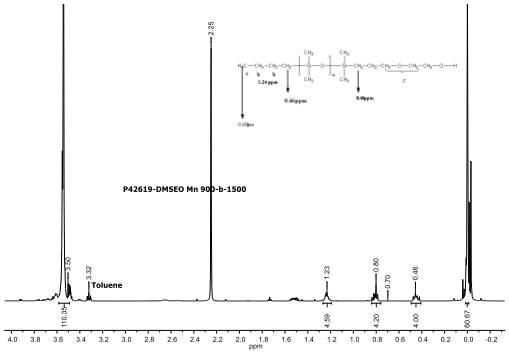
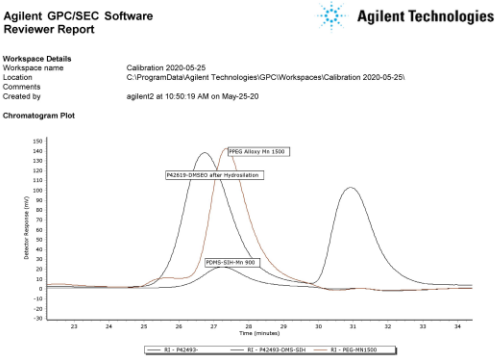


^{1}H-NMR spectrum of AllyoloxyPEG:



^{1}H-NMR Spectrum of the final block copolymer:





SEC elugram of the polymer: