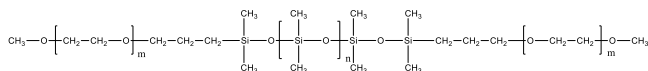


Sample Name:

Poly(ethylene oxide-b-dimethyl siloxane -b-ethylene oxide)

Sample#: **P43001-EODMSEO**

Structure:



Composition:

Mn x 10 ³ PEO-b-PDMS-b-PEO	PDI
0.35-b-2-b-0.35	1.27

Dp: 7-b-20-b-7

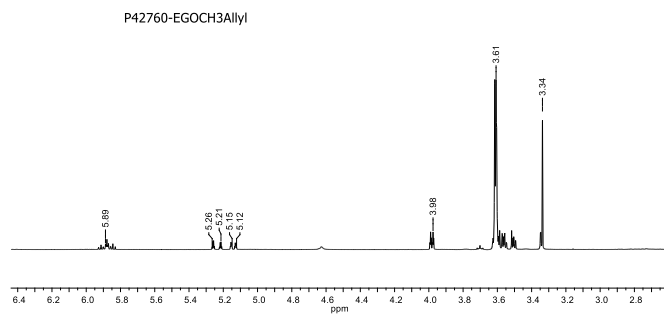
Synthesis Procedure:

The polymer is prepared by hydrosilylation reaction of allyl PEO and disilane terminated PDMS using Pt catalyst.

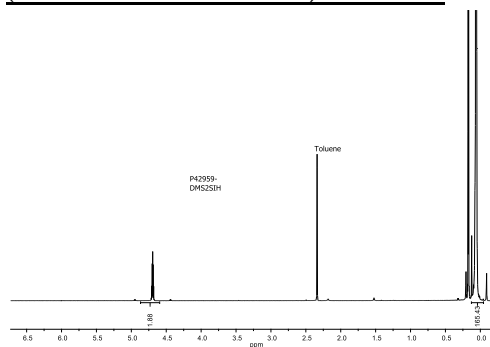
Characterization:

The polymer was analyzed by size exclusion chromatography (SEC) and NMR to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from ¹H-NMR spectroscopy by comparing the peak area of the siloxane protons at about 0.08 ppm with the peak area of ethylene oxide protons at about 3.4ppm. The hydrosilylation reaction is monitored by FTIR, the disappearance of SiH at 2125 cm⁻¹.

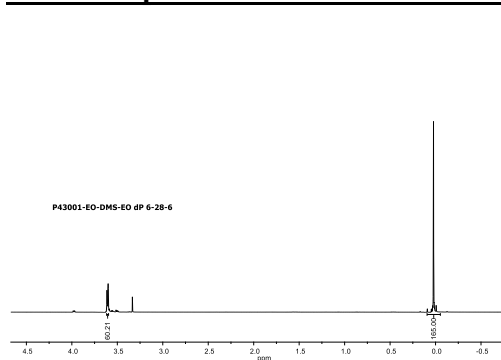
¹H-NMR Spectrum of Allyl terminated mPEG (Lot P42760 EG-OCH3 Allyl Mn 350):



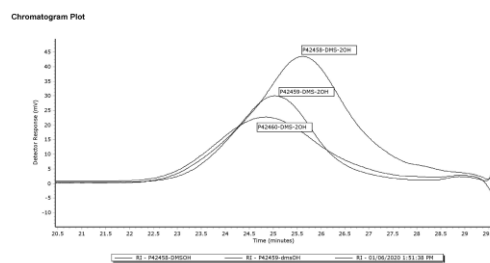
¹H-NMR Spectrum of the PDMS 2SiH (Lot# P42959 DMS2SiH) Mn 2000:



¹H-NMR Spectrum of the final block copolymer:



SEC elugram of the Sample:



Agilent GPC/SEC Software

