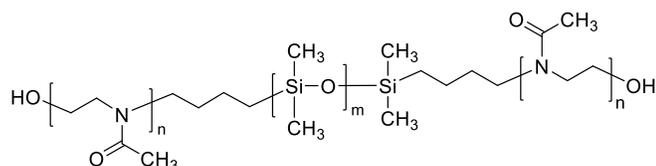


Product Name: Poly(2-methyl oxazoline)-*block*-poly(dimethyl siloxane)-*block*-poly(2-methyl oxazoline), with *n*-butyl link between blocks

Product # P42638B-MEOXZDMSMEOXZ

Structure:

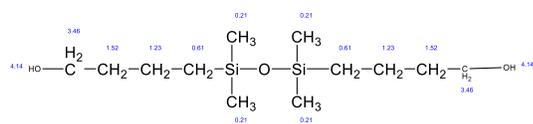


Composition:

$M_n \times 10^3$ (g/mol) [MEOXZ- <i>b</i> -DMS- <i>b</i> -MEOXZ]	M_w/M_n
2.5- <i>b</i> -11.5- <i>b</i> -2.5	1.3
Degree of polymerization (D_p):	30- <i>b</i> -155- <i>b</i> -30

Synthesis procedure:

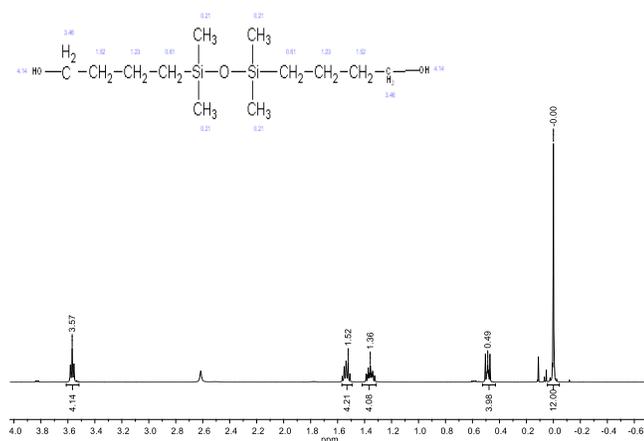
The triblock copolymer was synthesized by cationic polymerization technique, using the following linker :



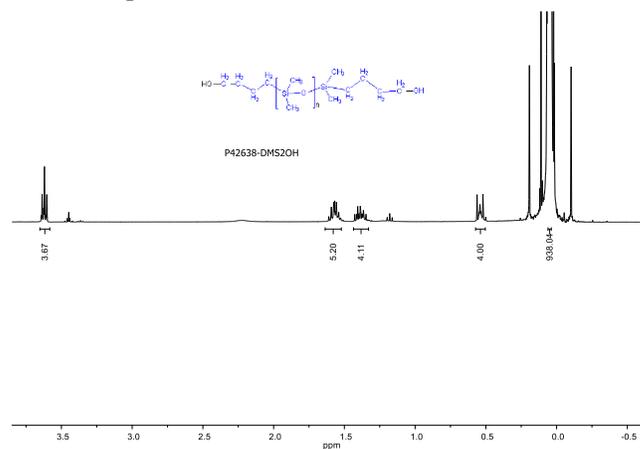
Characterization:

The ratio between blocks was calculated by proton NMR spectroscopy. The molecular weight and polydispersity index were determined by size exclusion chromatography (SEC) by triple analysis method.

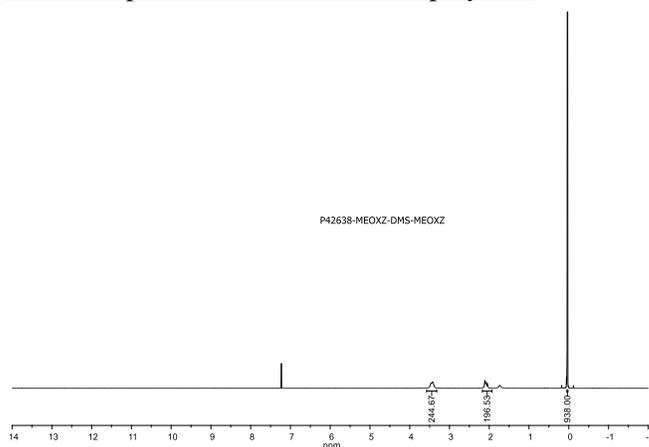
1H NMR spectrum of the linker:



1H NMR spectrum of the PDMS-dicarbinol:



1H NMR spectrum of the triblock copolymer:



SEC of PDMS-dicarbinol:

Workspace Details
 Workspace name: Calibration 2020-05-25
 Location: C:\ProgramData\Agilent Technologies\GPC\Workspaces\Calibration 2020-05-25
 Comments:
 Created by: agilent2 at 10:50:19 AM on May-25-20

Chromatogram Plot

