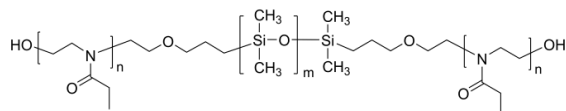


Sample Name:

**Poly(2-ethyl oxazoline)-b-poly(dimethyl siloxane)-
b-poly(2-ethyl oxazoline) triblock copolymer**
propyl-ethoxy linker

Sample #: **P42757C-EtOXZDMSEtOXZ**

Structure:



Composition:

Mn x 10 ³	PDI
1.2-b-6.5-b-1.2	1.3

Dp of each unit: (13-b-87-b-13)

Synthesis Procedure:

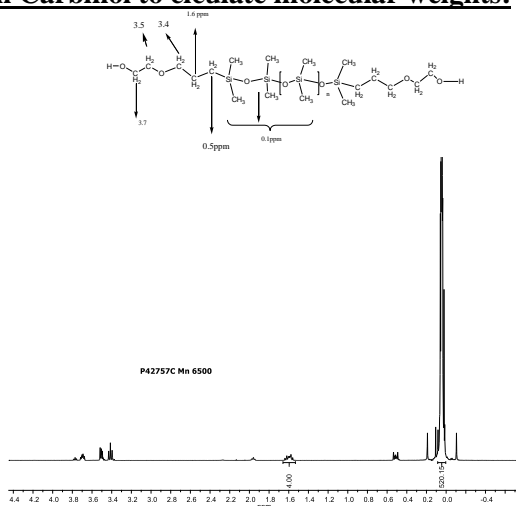
The polymer was synthesized by anionic polymerization process.

Characterization:

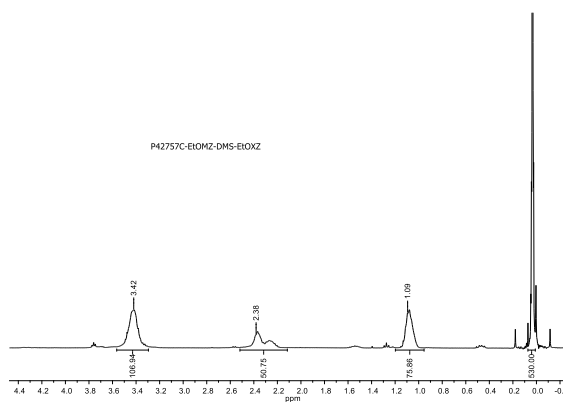
The product was characterized by size exclusion chromatography (SEC) and ¹H NMR data analysis.

Central Block: Size exclusion chromatography (SEC): Varian liquid chromatograph equipped with UV and refractive detector. SEC columns from Supelco were used with THF. The chemical composition was extracted from proton NMR, which was recorded from Varian 500MHz instrument using CDCl₃ as solvent.

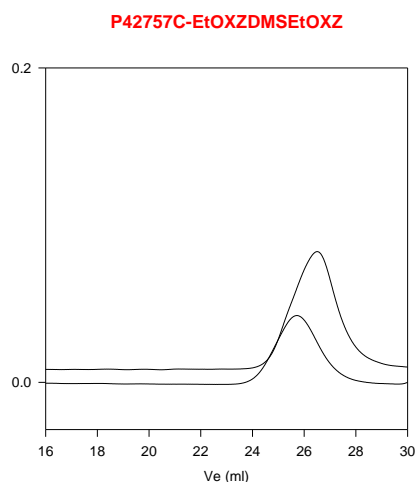
¹H-NMR spectrum of the PDMS end functionalized with Carbinol to calculate molecular weights:



¹H-NMR spectrum of Block copolymer:



SEC profile of the sample:



Size exclusion chromatography of the polymer

— Polydimethyl siloxane disilanol $M_n=6,500$, $M_w=8,400$, $Mw/Mn=1.3$

- - - Poly(ethyl oxazoline)-b-dimethyl siloxane-b-ethyl oxazoline end Functionalized with Acrylate unit
Mn: PEtOXZ(1200)-b-PDMS(6,500)-b-PEtOXZ(1200) $Mw/Mn=1.3$