

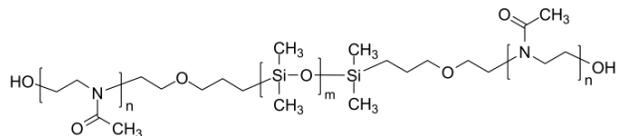
Sample Name:

Poly(2-methyloxazoline-*b*-dimethylsiloxane-*b*-2-methyloxazoline) Triblock Copolymer

Liker Propyl ethoxy

Sample #: **P43503D-MEOXZDMSMEOXZ**

Structure:

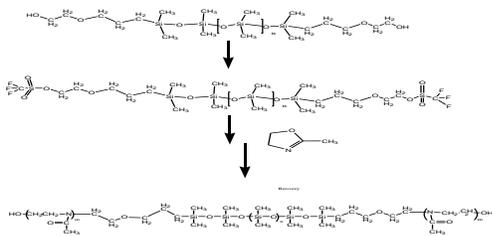


Composition:

Mn x 10 ³ MOXZ-DMS-MOXZ	PDI	Dp:
0.25-b-5.0-b-0.25	1.3	3-b-68-b-3

Synthesis Procedure:

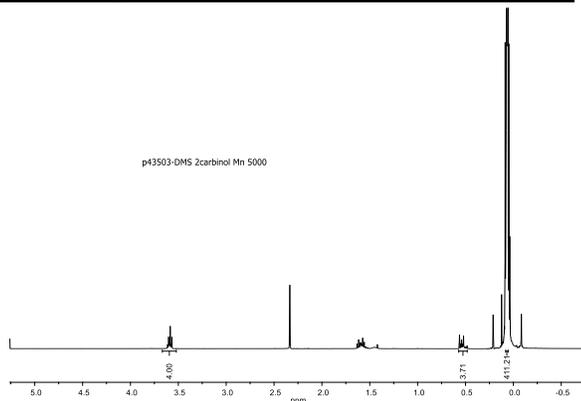
The following reaction scheme shows how the product was prepared:



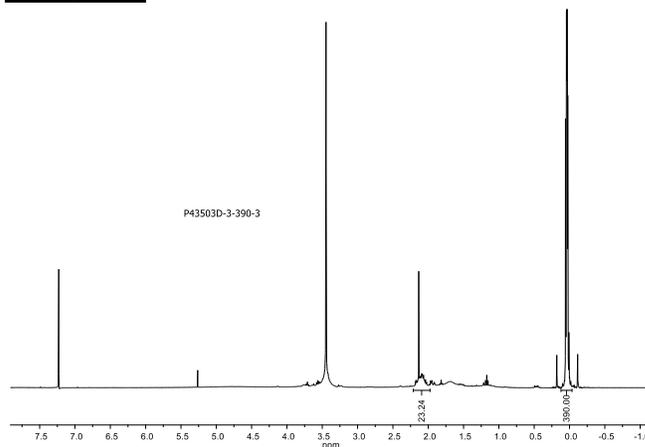
Characterization:

The product was characterized by ¹H NMR. GPC analysis of such kind of polymer cannot be carried out in THF or DMF as solvent. We have used a mixture of DMF/THF 20/80 by volume and added 3 V% (Et)₃N to elute such polymer. The values of Mw/Mn were determined, and the composition of the polymer determined by its HNMR.

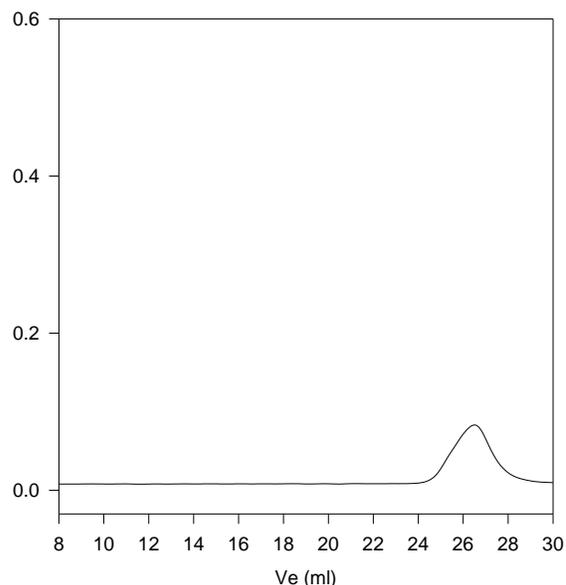
¹H-NMR spectrum of PDMS-2OH (dicarbinol):



¹H-NMR spectrum of MOXZ-DMS-MOXZ triblock copolymer:



SEC elugram of the sample:



Size exclusion chromatography of the polymer

— ABA triblock copolymer Mw/Mn=1.30 Composition from HNMR