

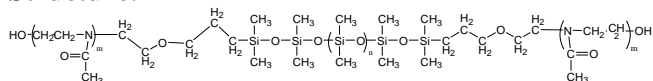
Sample Name:

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

Liker Propyl ethoxy

Sample #: **P42795F-MEOXZDMSMEOXZ**

Structure:

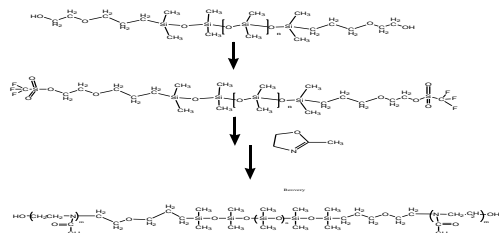


Composition:

Mn x 10 ³ MOXZ-DMS-MOXZ	PDI	Dp:
0.45-b-3.0-b-0.45	1.15	5-b-40-b-5

Synthesis Procedure:

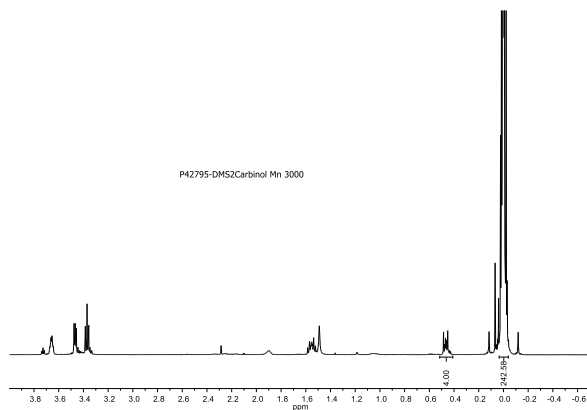
The following reaction scheme shows how the product was prepared:



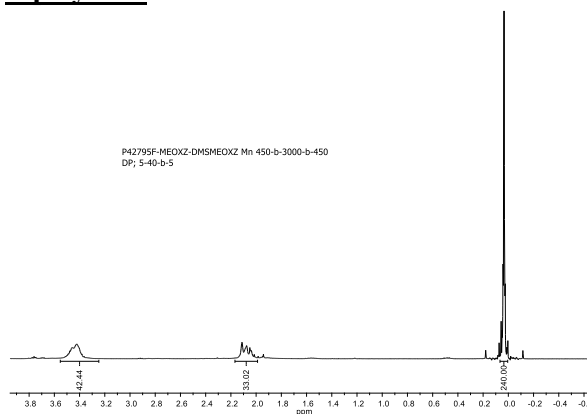
Characterization:

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):

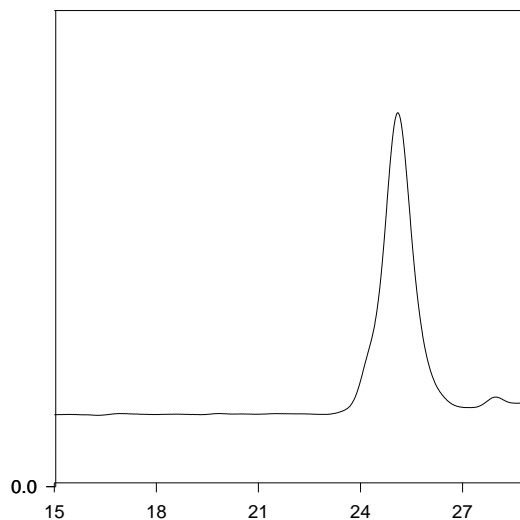


¹H-NMR spectrum of MOXZ-DMS-MOXZ triblock copolymer:



SEC elugram of the sample:

P42795F-MEOXZDMSMEOXZ



Size exclusion chromatography of the polymer:

..... MEOXZ-Polydimethylsiloxane-MEOXZ M_n= 450-b-3000-450 , PI=1.15