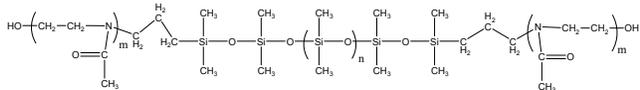


Sample Name:

Poly(2-methylloxazoline-b-dimethylsiloxane-b-2-methylloxazoline) Triblock Copolymer

Sample #: P11170X-MOXZDMSMOXZ

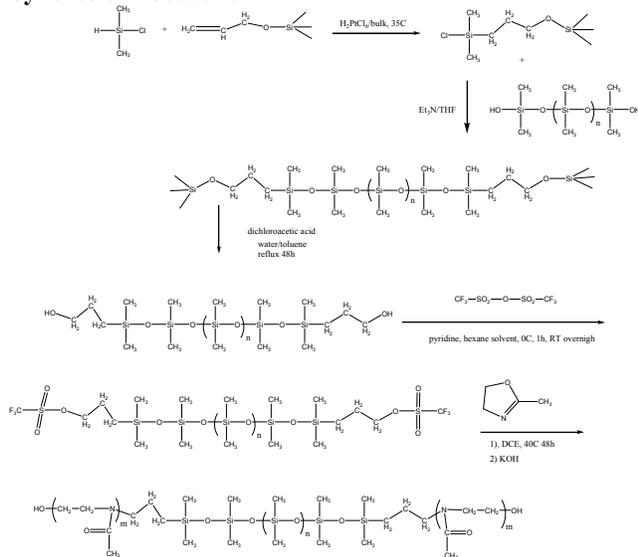
Structure:



Composition:

Mn x 10 ³ MEOXZ-DMS-MEOXZ	PDI
0.7-8.8-0.7	1.3
Dp: 8-b-119-b-8	

Synthesis Procedure:



Characterization:

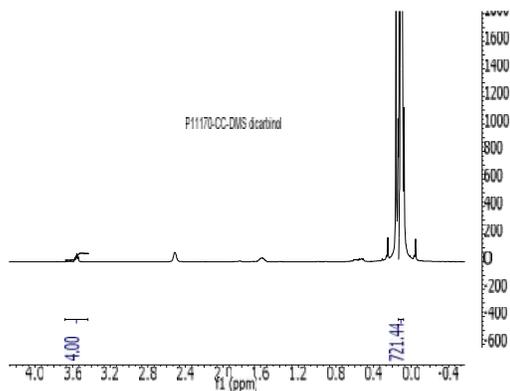
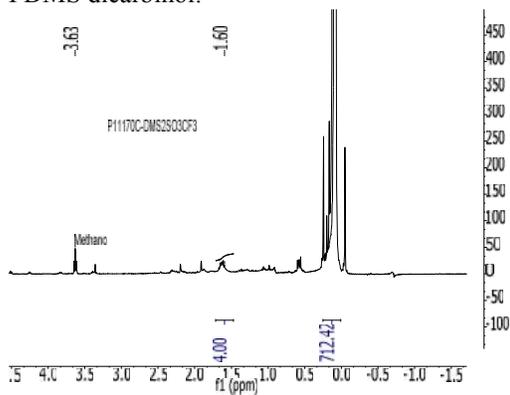
Central Block: Size exclusion chromatography (SEC): Varian liquid chromatograph equipped with UV and refractive detector. SEC columns from Supelco were used with THF and for the block copolymer in DMF as the eluent. The columns were calibrated with monodisperse poly(dimethyl siloxane). The molecular weights and the polydispersity indice were calculated.

Side Block: The chemical composition was extracted from proton NMR, which was recorded from Varian 500MHz instrument using CDCl₃ as solvent. The molecular weight of side block was calculated based on the molecular weight of central block and the chemical composition.

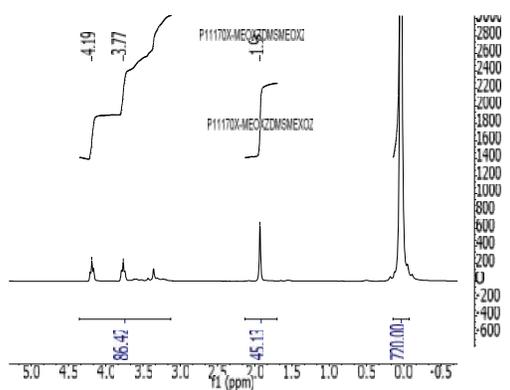
Product solubility in different solvents:

THF	ethanol	DMF-Hot	CHCL3	CHCl3/Ethanol
Opaque solution	Opaque solution	Clear solution	Clear solution	Clear solution

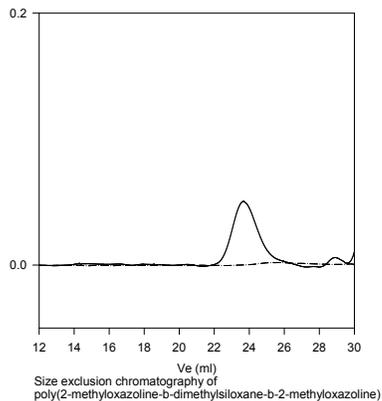
PDMS dicarbinol:



ABA triblock:



P11170X-MOXZDMSMOXZ



Size exclusion chromatography of poly(2-methylloxazoline-b-dimethylsiloxane-b-2-methylloxazoline)

— Polydimethylsiloxane M_n=8,800, M_w=10,500, PI=1.20

--- Triblock copolymer; could not be eluted THF as eluent

Composition from ¹H NMR: MOXZ-b-DMS-b-MOXZ

Mn: 700-b-8800-b-700

degree of polymerization: MOXZ₍₈₎-b-DMS₍₁₁₉₎-b-MOXZ₍₈₎

Mw/Mn in DMF : 1.3