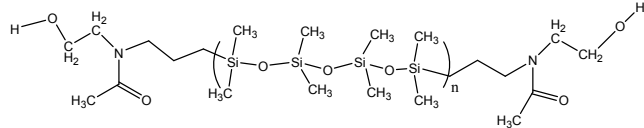


**Sample Name:**  $\alpha$ - $\omega$  methyloxazoline terminated poly dimethylsiloxane

**Sample #:** P11148-DMS2MEOXZ

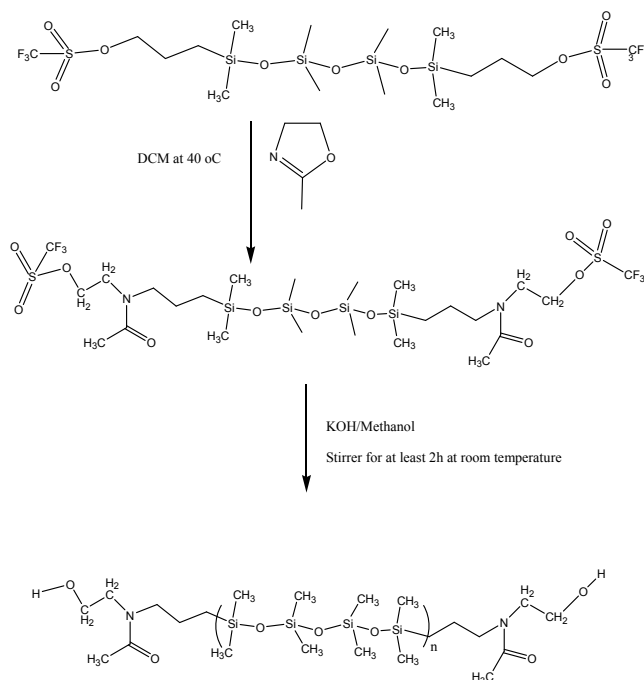
**Structure:**



**Composition:**

Mn x 10 <sup>3</sup> MEOXZ-DMS-MEOXZ	PDI
2.6	1.3
Dp: 1-b-33-b-1	

**Synthesis Procedure:**



**Characterization:**

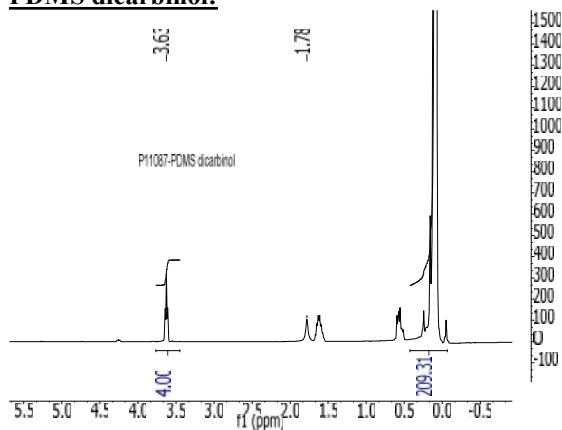
**Central Block:** Size exclusion chromatography (SEC): Varian liquid chromatograph equipped with UV and refractive detector. SEC columns from Supelco were used with THF and for the block copolymer in DMF as the eluent. The columns were calibrated with monodisperse poly(dimethyl siloxane). The molecular 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 CDCl<sub>3</sub> as solvent. The molecular weight of side block was calculated based on the molecular weight of central block and the chemical composition.

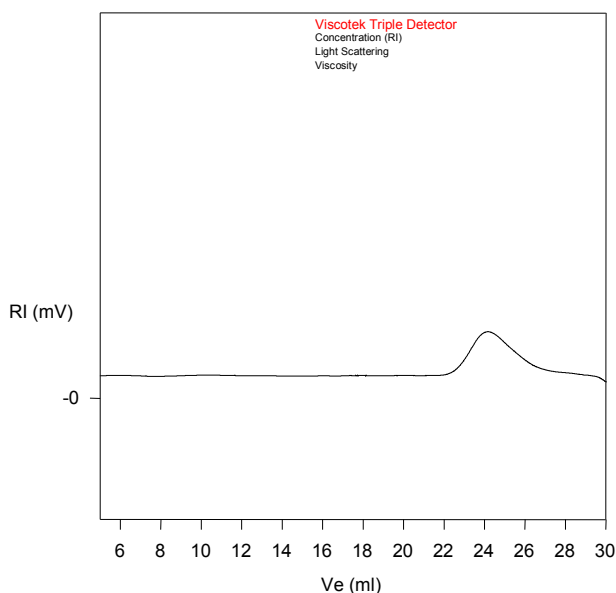
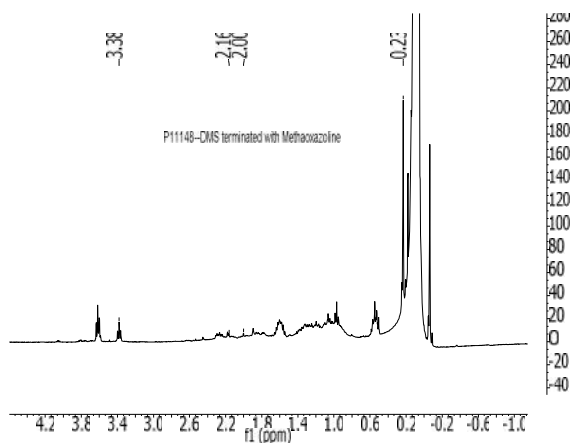
**Product solubility in different solvents:**

THF	ethanol	DMF	CHCl <sub>3</sub>	CHCl <sub>3</sub> /Ethanol
Clear solution	Opaque solution	opaque solution	clear solution	Clear solution

**PDMS dicarbinol:**



**Final Polymer**



Size Exclusion Chromatography of polymer:  
in DMF at 60 °C

— MEOXZ-DMS-MEOXZ M<sub>n</sub> = 2600 M<sub>w</sub>/M<sub>n</sub> = 1.3