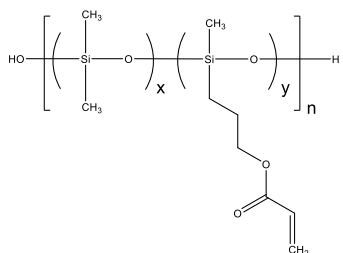


**Sample Name: Poly(acryloxypropylmethylsiloxane-co-dimethylsiloxane), random**

**Sample #: P42004B-AcPrMSDMSran**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
6.0	1.6

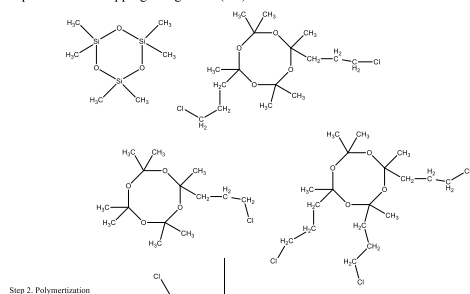
Ratio of AcPrMS:DMS	30:70
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**Synthesis Procedure:**

The polymer was synthesized by Cationic polymerization process using trifluorosulfonic acid using following 2 cyclic siloxane monomers mixture:

Three steps process to get random copolymer

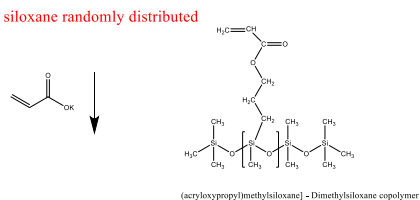
Synthesis of Cyclics of the following architecture and mix them and to perform cationic process. End capping using TMS-(ET)3N or HMDS



Step 2: Polymerization

Chloropropyl methyl siloxane randomly distributed

Step 3 : functionalization

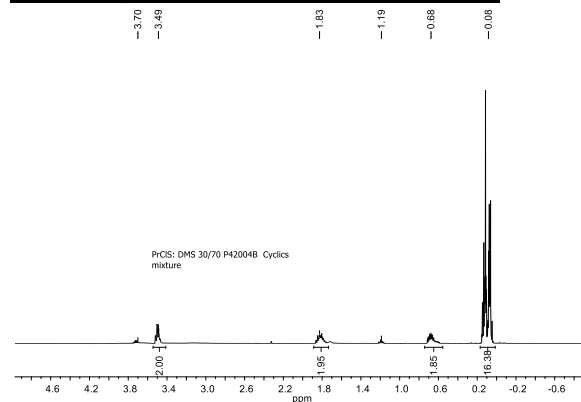


(acryloxypropyl)methylsiloxane] - Dimethylsiloxane copolymer

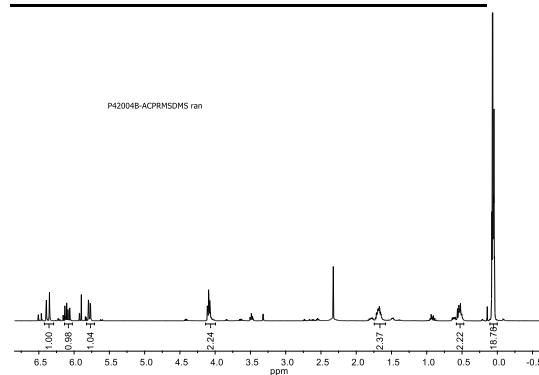
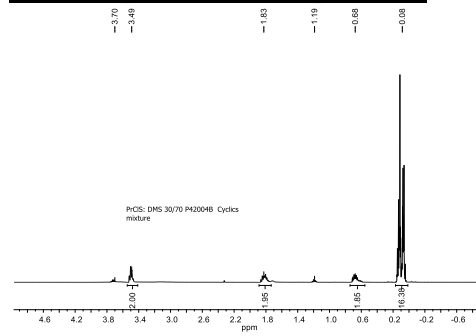
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR.

**HNMR spectrum of the Cyclis Mixture**

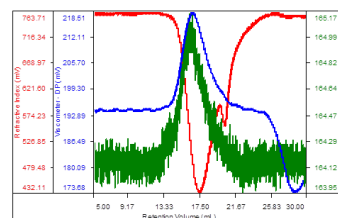


**HNMR spectrum of the polymer:**



**SEC elugram of the Sample:**

AcPrMDMS	
dn/dc	0.0000
Solvent	Toluene
Flow Rate	1.0000
Method	PS100K-July2019-0001.vcm



Sample	Mn	Mw	IV	Mw/Mn
AcPrMDMS	6,567	12,231	0.1009	1.862