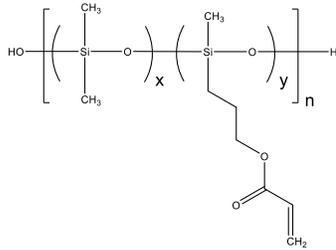


Sample Name: Poly(acryloxypropylmethylsiloxane-co-dimethylsiloxane), random

Sample #: P42004A-AcPrMSDMSran

Structure:



Composition:

Mn x 10 ³	PDI
6.5	1.8

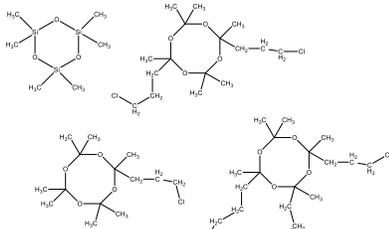
Ratio of AcPrMS:DMS	40:60
---------------------	-------

Synthesis Procedure:

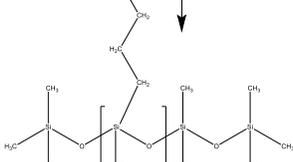
The polymer was synthesized by Cationic polymerization process using trifluorosulfonic acid using following 2 cyclic siloxane monomers mixture:

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

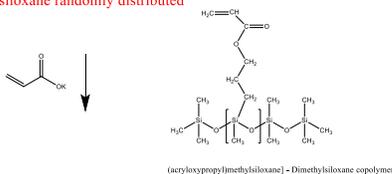


Step 2: Polymerization



Chloropropyl methyl siloxane randomly distributed

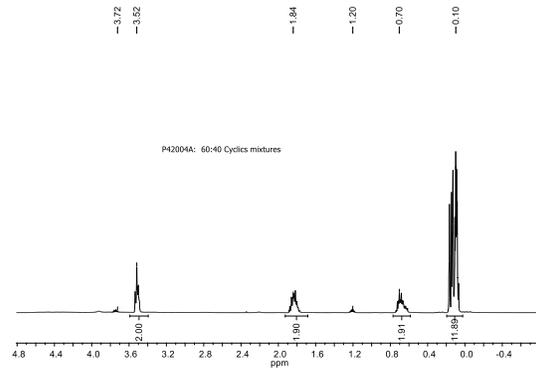
Step 3: functionalization



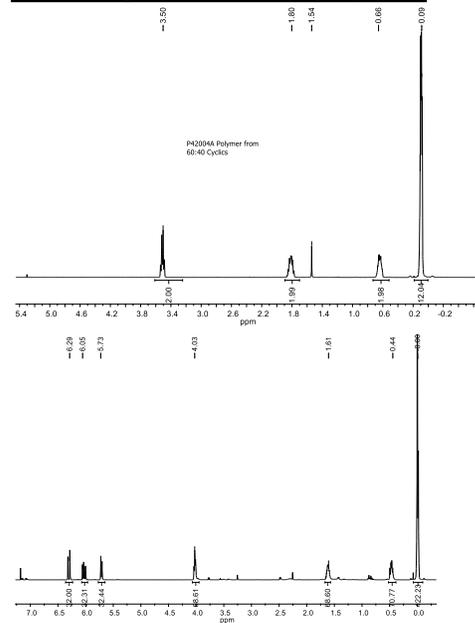
Characterization:

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

HNMR spectrum of the Cyclis Mixture

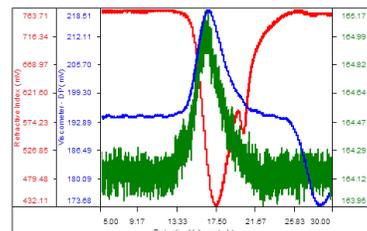


HNMR spectrum of the polymer:



SEC elugram of the Sample:

AcPrMDMS	
dn/dc	0.0900
Solvent	Toluene
Flow Rate	1.0000
Method	PS100K-July 2019-0001 vcm



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