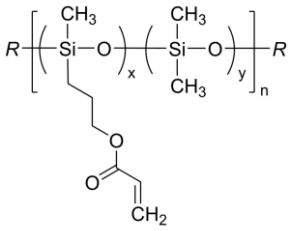
Sample Name: **Poly(acryloxypropylmethylsiloxane–co–dimethylsiloxane), random**

Sample #: **P41866-AcPrMSDMSran**

Structure:



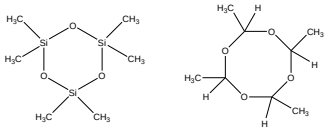
Composition:

Mn x 10^3	PDI
8.0	1.4

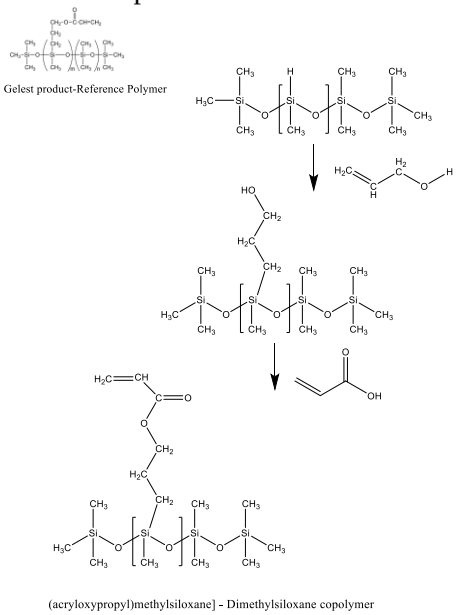
# of APMS units	20
Ratio of DMS: APMS	5:1

Synthesis Procedure:

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



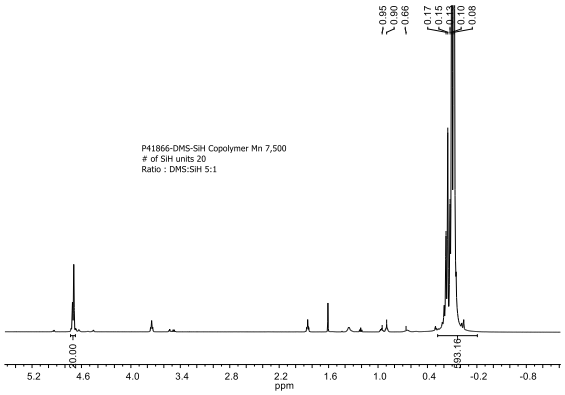
Scheme of process:



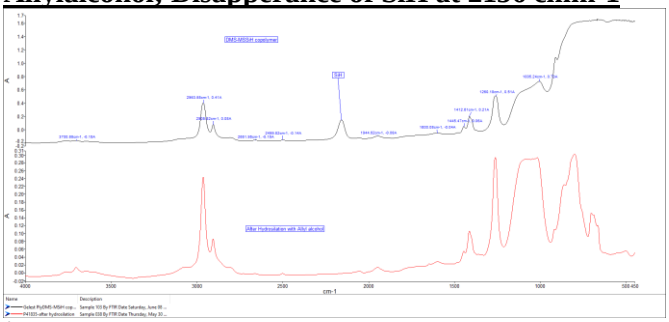
Characterization:

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

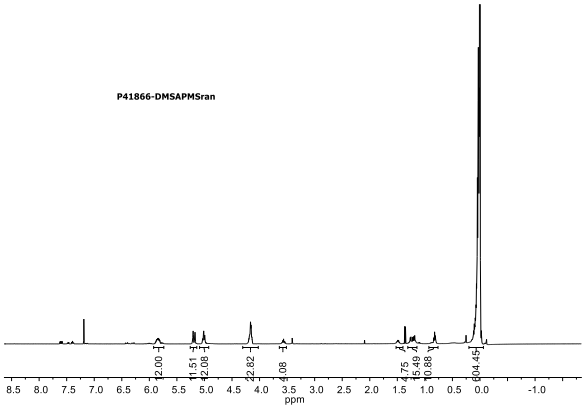
^{1}H NMR spectrum of the copolymer DMSSiHCH3:



FTIR of the Polymer after Hydrosilation with Allylalcohol; Disapperance of SiH at 2156 cmm-1



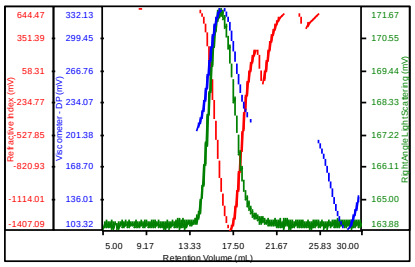
^{1}H NMR spectrum of the copolymer: APMS-DMS



SEC elugram of the Sample:

P41866-DMS-SiH Copolymer SIH 12%

dn/dc	0.0900
Solvent	Toluene
Flow Rate	1.0000
Method	PS100K-July2019-0001.vcm



Sample	Mn	Mw	Mz	IV	Mw/Mn
2019-07-14_20;45;13_P41866-DMS-SiH_	8,113	11,698	17,336	0.0875	1.442