

Sample Name:

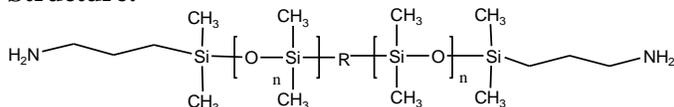
α,ω - Amino Terminated Polydimethylsiloxane

SEC of Sample:

Sample #: P4321-DMS2NH2

P4321-DMS2NH2

Structure:

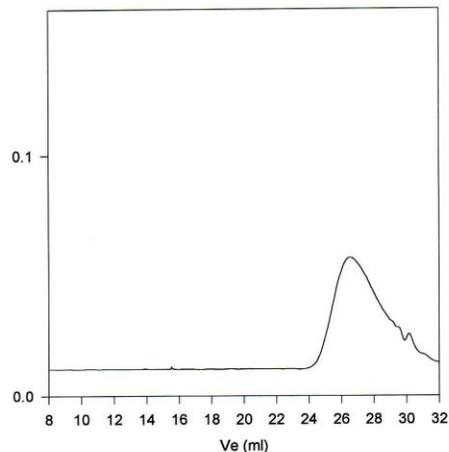
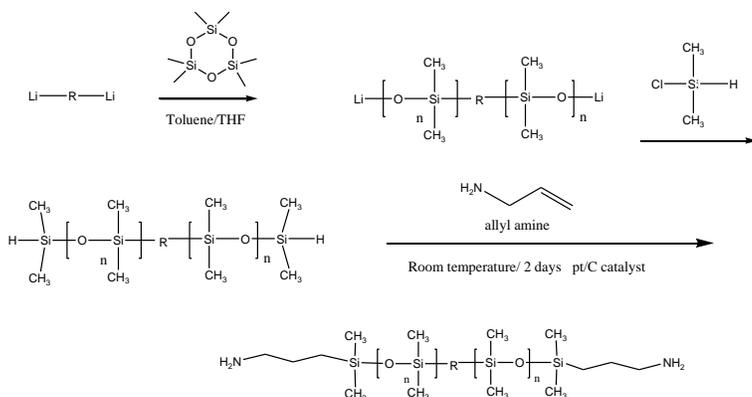


Composition:

$M_n \times 10^3$	PDI
2.0	1.5

Synthesis Procedure:

α,ω diamino Terminated Polydimethylsiloxane was prepared by anionic living polymerization of hexamethyl cyclotrisiloxane, followed by a hydrosilylation with allylamine. The scheme of the reaction is illustrated below:



Size Exclusion Chromatography of diamino terminated Poly(dimethyl siloxane)
 $M_n=2000$, $M_w=3000$, $PI=1.5$

Characterization:

The molecular weight and polydispersity index of this polymer were by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Solubility:

Polymer is soluble in hexane, toluene, benzene and $CHCl_3$, THF. It precipitated out from cold ethanol, methanol.