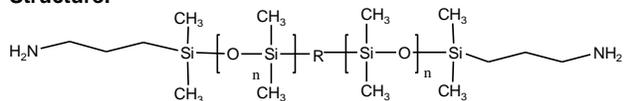


Sample Name:
 α,ω Amino Terminated Polydimethylsiloxane

Sample #: P6497-DMS2NH2

Structure:

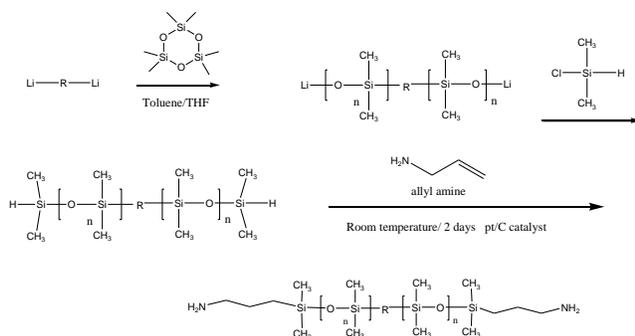


Composition:

Mn x 10 ³	PDI
6.0	1.2
NH2 end functionality:	> 87%

Synthesis Procedure:

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



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. The functionality was determined by titration of HClO₄ in chloroform.

Solubility:

Polymer is soluble in hexane, toluene, benzene and CHCl₃, THF. It precipitated out from cold ethanol, methanol.

SEC of Sample:

