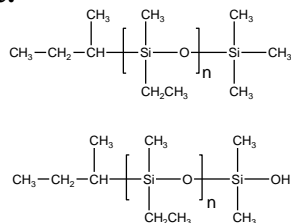


**Sample Name:** Poly(ethyl methyl siloxane)

**Sample #:** P10097D-EtMS

**Structure:**

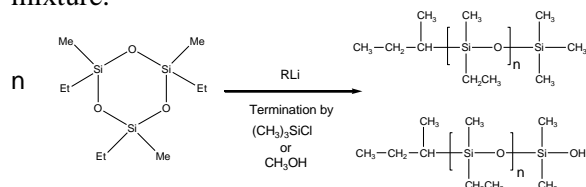


**Composition:**

$M_n \times 10^3$	Mw/Mn
2.3	1.7

**Synthesis Procedure:**

The polymerization of the cyclic trimer (1,3,5-trimethyl-1,3,5-triethyl cyclotrisiloxane-D3) (monomer synthesized) was initiated with a monofunctional lithium based initiator in a polar / non-polar solvent mixture.



**Characterization:**

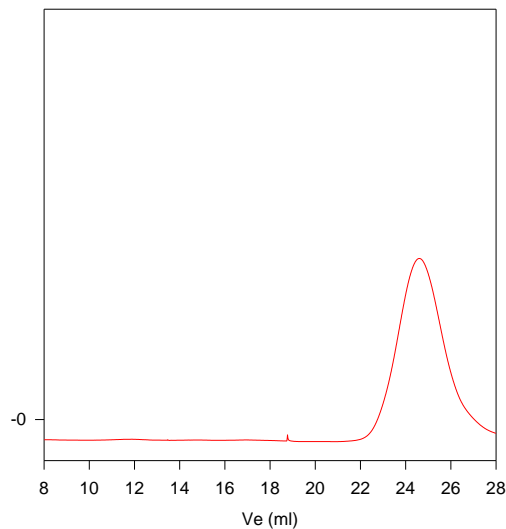
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co. SEC instrument was calibrated with monodispersed poly dimethylsiloxane polymers.

**Solubility:**

The polymer is soluble in Hexane, toluene, benzene, THF,  $\text{CHCl}_3$ .

**SEC of Homopolymer:**

**P10097D-EtMS**



Size Exclusion Chromatography of Poly(ethylmethyl siloxane)  
 $M_n=2,300$ ,  $M_w=3,700$ ,  $PI=1.6$

