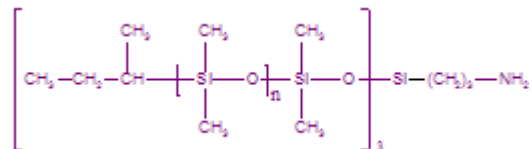


**Sample Name:** Three-Arm Polydimethylsiloxane,  
Amino Terminated

**Sample #:** P3944-3DMSSiNH<sub>2</sub>

**Structure:**



**Composition:**

Mn of arms X10 <sup>3</sup>	# of arms	Mn total X10 <sup>3</sup>	Mw/Mn
4.4	3	11.8	1.10

**Synthesis Procedure:**

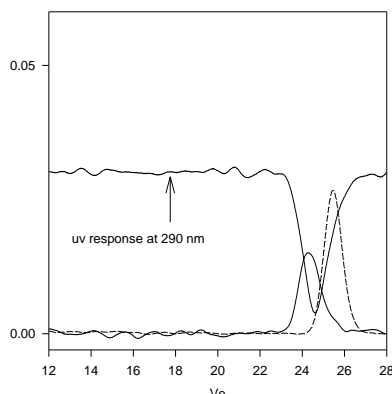
Three arm-polymer was prepared by anionic living polymerization

**Characterization:**

**Molecular Weight:** Size exclusion chromatography (SEC): Varian liquid chromatograph equipped with UV and refractive detector. SEC columns from Supelco were used with toluene as eluent. The columns were calibrated with monodisperse polystyrene. The molecular weights and the polydispersity indice of the side-arm were calculated. The absolute molecular weight of the star-like polymer was determined by light scattering detector.

**SEC elugram of the Polymer:**

P3944-3DMS-NH<sub>2</sub> (SEC of Three arm PDMS bearing NH<sub>2</sub> at the center)



Size Exclusion Chromatography :

----- Polydimethylsiloxane,  $M_n=4000$ ,  $M_w=4400$ ,  $M_w/M_n=1.09$

— After linking reaction with SiCl<sub>3</sub>H: molecular weights with respect to the linear PDMS  
Mn:9800  $M_w/M_n=1.10$

After reacting with 1-naphthyl isocyanate and under UV response at 290 nm

NH<sub>2</sub> titration value of three arm PDMS: Mn 11800

**FTIR of the Polymer:**

