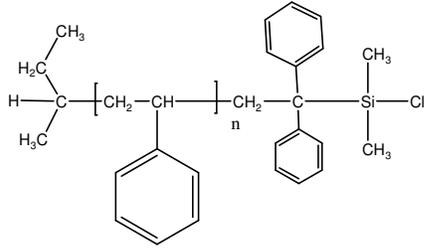


**Sample Name: Dimethyl Chlorosilane Terminated Polystyrene**

**Sample ID: P40020-SSiCl**

**Sample #: P40020-SSiCl**

**Structure:**

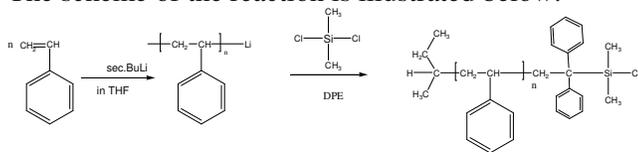


**Composition:**

$M_n \times 10^3$	PDI	Functionality SiCl
9.5	1.03	>98%

**Synthesis Procedure:**

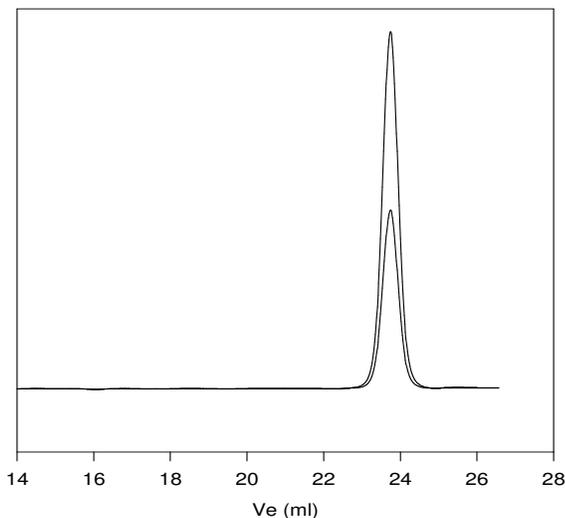
The polymer is synthesized by anionic process. The scheme of the reaction is illustrated below:



**Characterization:** The polymer was characterized by SEC and  $^1\text{H}$  NMR.

**SEC elugram of the polymer:**

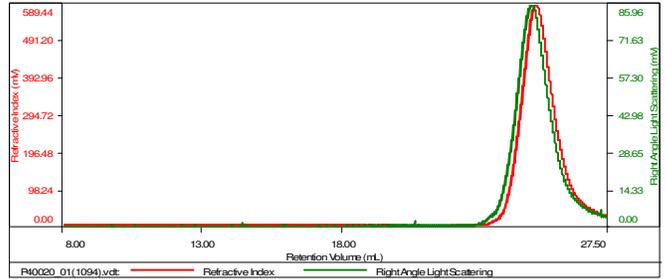
**P40020-S-SiCl**



Size exclusion chromatograph of polystyrene, before and after end capped with chlorosilane:

$M_n=9,500$ ,  $M_w=9,900$  PI=1.03

Concentration (mg/mL)	14.7901
Sample conc (mL/g)	0.1850
Method File	PS80K-30JUNE2016-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	$M_n$ (Da)	$M_w$ (Da)	$M_w/M_n$	$\eta$ (dL/g)	$M_p$ (Da)
P40020_01(1094).vdt	9,569	9,903	1.035	0.1326	9,442

**FTIR spectrum of the product:**

FTIR spectrum of the polymer clearly show the presence of SiCl at  $1217\text{ cm}^{-1}$  and SiCH<sub>3</sub> at  $1254\text{ cm}^{-1}$ .

