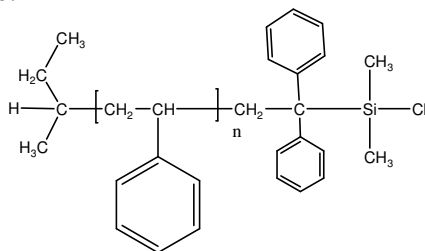


**Sample Name: Dimethyl Chlorosilane Terminated Polystyrene**

**Sample #: P40020-SSiCl**

**Structure:**

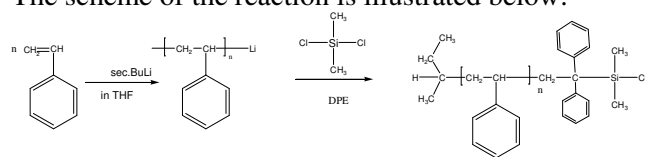


**Composition:**

Mn x 10 <sup>3</sup>	PDI	Functionality SiCl
9.5	1.03	>98%

**Synthesis Procedure:**

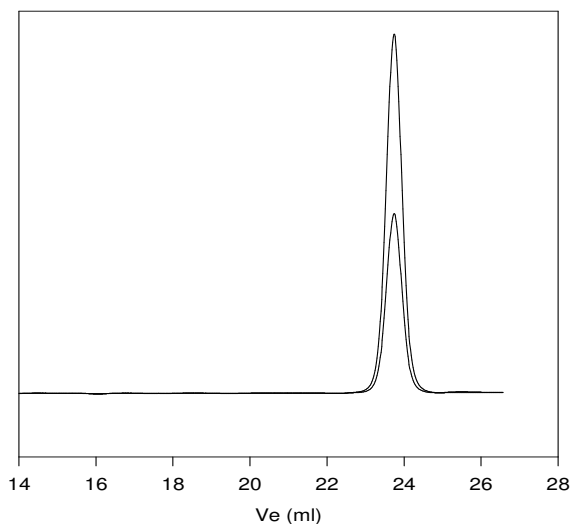
The polymer was synthesized by anionic process. The scheme of the reaction is illustrated below:



**Characterization:** The polymer was characterized by SEC and <sup>1</sup>H NMR.

**SEC elugram of the polymer:**

**P40020-S-SiCl**

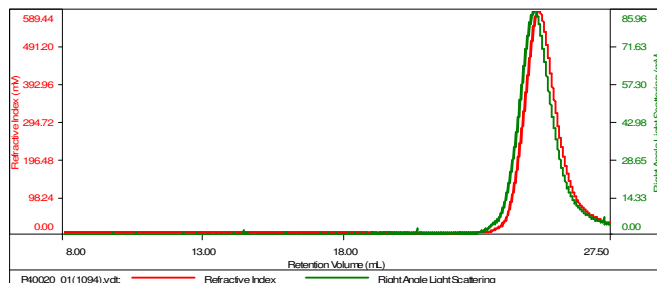


Size exclusion chromatograph of polystyrene, before and after end capped with chlorosilane:

M<sub>n</sub>=9,500, M<sub>w</sub>=9,900 PI=1.03

**Sample ID: P40020-SSiCl**

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



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (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 cm<sup>-1</sup> and SiCH<sub>3</sub> at 1254 cm<sup>-1</sup>.

