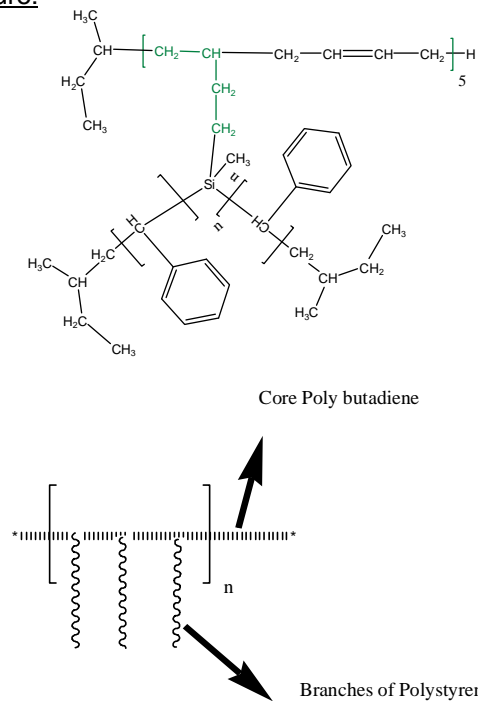


Sample Name: 12-arm Polystyrene grafted on Si-modified Polybutadiene

Sample # P18375C-12S

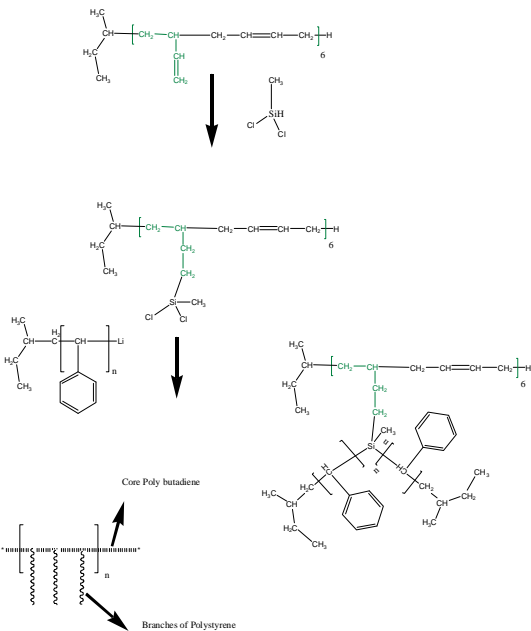
Structure:



Composition:

Mn x 10 ³ (total)	Mn x 10 ³ (each arm)	Mw/Mn
13.5	1.0	1.07

Synthesis Procedure:

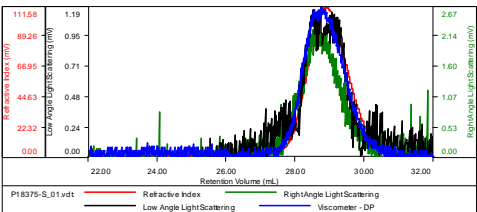


Characterization:

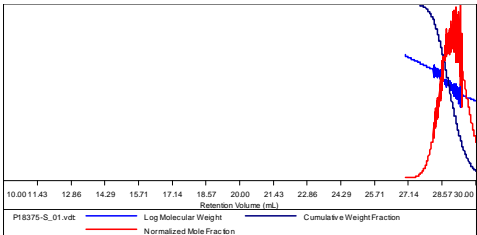
Size exclusion chromatography (SEC): Varian liquid chromatograph equipped with UV and refractive detector. SEC columns from Supelco were used with THF as the eluent. The columns were calibrated with monodisperse polystyrene. The molecular weights and the polydispersity indice of the side-arm were calculated.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

SEC elugram of polystyrene branch:
Sample ID: P18375-S

Concentration (mg/mL)	4.0164
Sample dn/dc (mL/g)	0.1850
Method File	P580K-NOV25-2013-0001.vcm
Column Set	3x PL 1113-6300
System	System 1

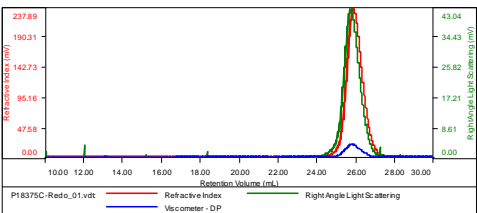


Sample	Mn	Mw	Mp	Mw/Mn	IV
P18375-S_01.vdt	1,141	1,237	1,321	1.085	0.0401



SEC elugram of multiarm polystyrene product:
Sample ID: P18375C-12 arms PS

Concentration (mg/mL)	4.9500
Sample dn/dc (mL/g)	0.1850
Method File	P580K-NOV25-2013-0001.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18375C-Redo_01.vdt	13,537	14,546	13,905	1.075	0.0712

