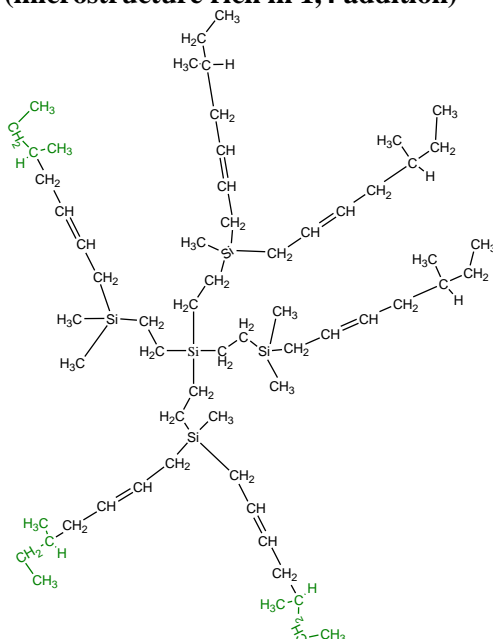


Sample Name: P18386-6Bd
Six arms Poly butadiene
(microstructure rich in 1,4 addition)



Mn x 10 ³ (each Branch)	PDI
92.0 (Mn of each arm: (15.4)	1.03

Synthesis Procedure:

The six arm-polymer was prepared by anionic living polymerization of butadiene in non-polar solvent, and then the star polymer was obtained by coupling reaction with hexachlorosilane derivative.

Scheme 1.

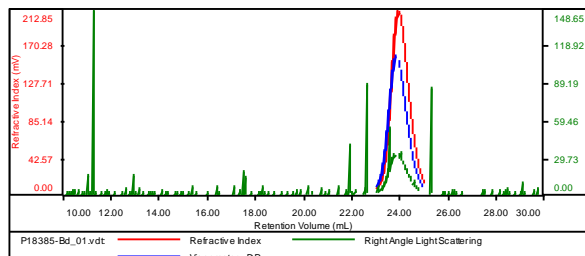
Characterization:

Molecular Weight: 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 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.

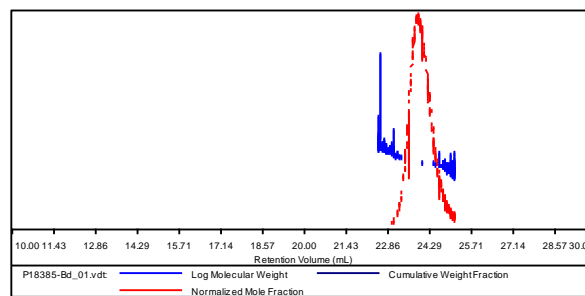
For the PBd branch:

Sample ID: P18386-Bd

Concentration (mg/mL)	8.8701
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-Jan05-2014-0001.vcm
Column Set	3x PL 1113-6300
System	System 1

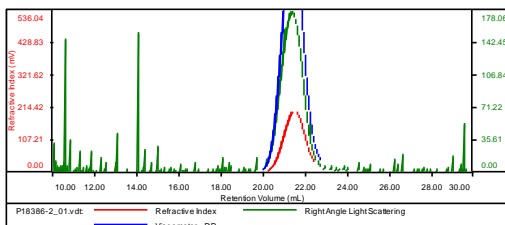


Sample	Mn	Mw	Mp	Mw/Mn	IV
P18386-Bd_01.vdt	15,381	16,100	15,597	1.047	0.3224



Sample ID: P18386-Bd star

Concentration (mg/mL)	10.9631
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-Jan05-2014-0001.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18386-2_01.vdt	92,004	93,849	92,085	1.020	0.6383

