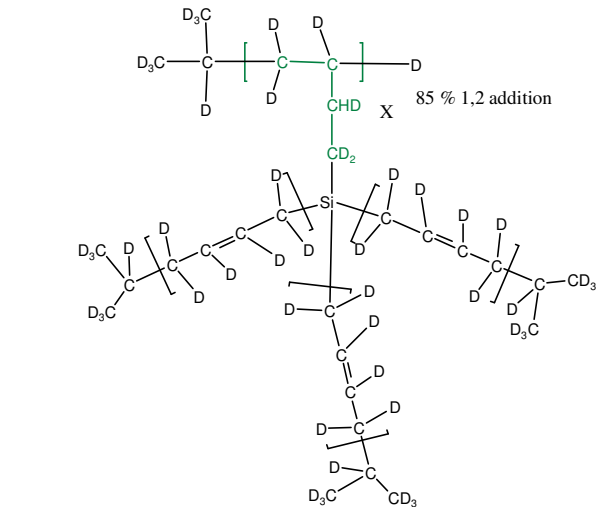


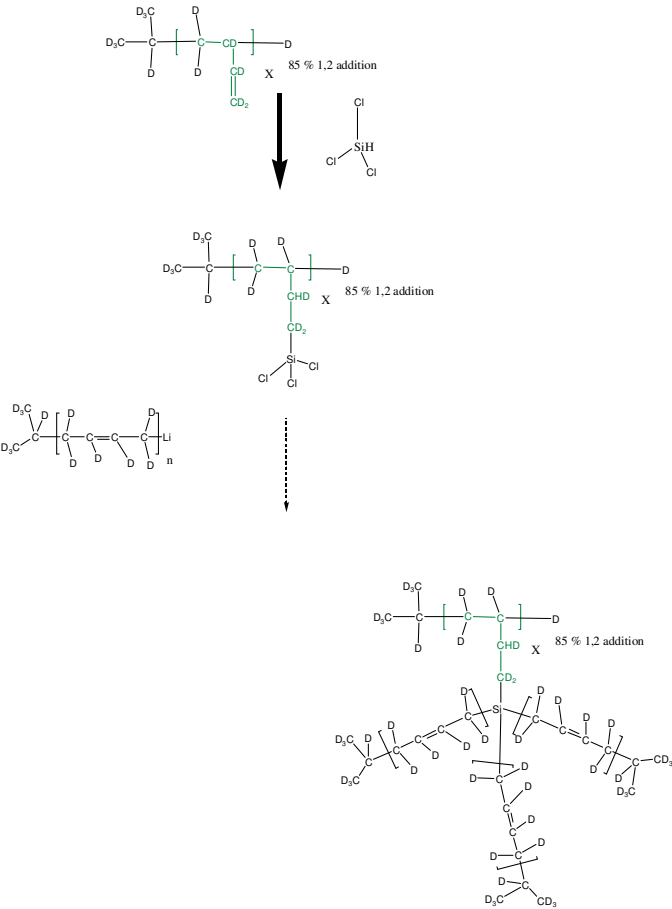
Sample Name:  
Completely Deuterated Multiarm PolyButadiene

Sample # **P18537-83dBd**  
83-arm deuterated 1,4-polybutadiene



Mn x 10 <sup>3</sup> (total)	PDI
52.5	1.10
Mn of each arm: (0.6)	

Synthesis:



Linker : Lot# P1853; Mn of 1700 dP: 28 units of dBd; # of Si-Cl 85

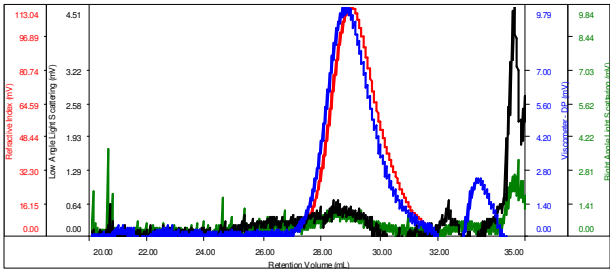
Branch Molecular weights determined from RI signal:

Characterization:

SEC elugram of polybutadiene (arm):

Sample ID: P118537-dBd branch

Concentration (mg/mL)	9.6392
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-March7-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1

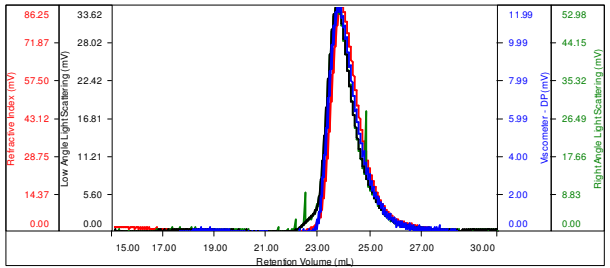


Sample	Mn	Mw	Mp	Mw/Mn	IV
P18537-DBd_branch_01.vdt	573	684	743	1.194	0.0415

SEC elugram of multi-arm polybutadiene:

Sample ID: P18537-Bd Star

Concentration (mg/mL)	2.1669
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-Feb25-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18537-BdStar_Crd__01.vdt	52,602	58,153	56,842	1.106	0.1628