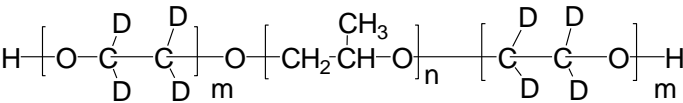


Sample Name:

Poly (deuterated ethylene oxide-b-propylene oxide-b-deuterated ethylene oxide)

Sample #: P19308-dPEOPPOdPEO (pluronic F68)
deuterated analog

Structure:



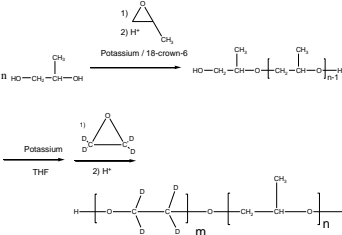
Composition:

Mn x 10 ³ dPEO-b-PPO-b-dPEO	PDI
3.4-b-1.7-b-3.4	1.06

Dp: dPEO (78)-b-PO(30)-b-dPEO (78)

Synthesis Procedure:

The polymer was synthesized by anionic process using deuterated EO monomer and protonated propylene oxide.



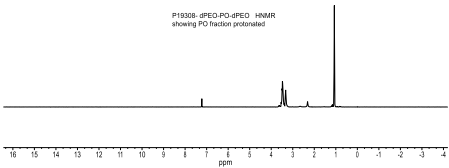
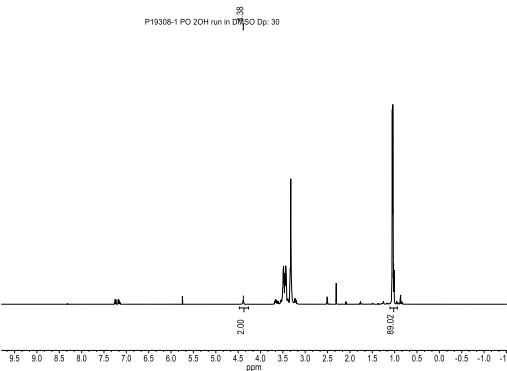
Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹H NMR and D NMR data analysis.

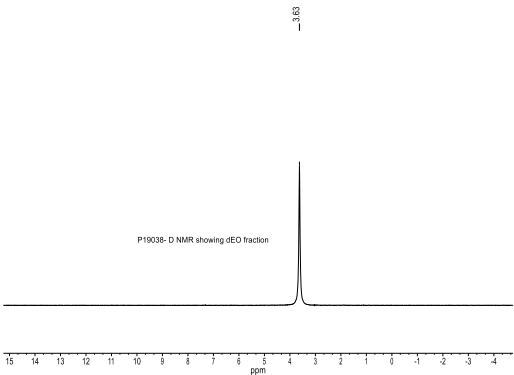
Solubility:

Polymer is soluble in THF, CHCl₃, Toluene.

H NMR spectrum of the Sample:



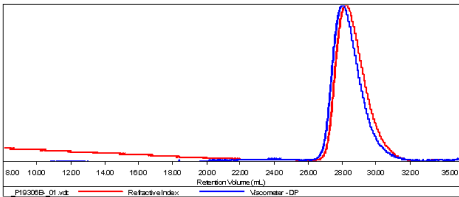
D NMR spectrum of the Sample:



SEC elugram Of the Sample:

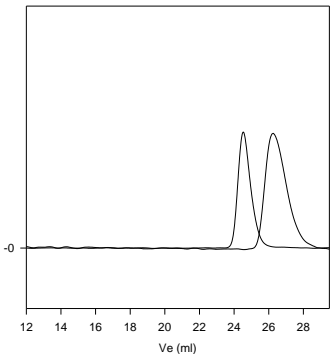
Sample IDP19308-dPEO-b-PO-b-dPEO

Concentration (mg/mL)	15.3651
Sample chd: (nL/g)	0.0550
MethodFile	PS600-May20-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19308-dPEO-b-PO-b-dPEO	5,400	9,000	5,400	1.06	0.2267

P19308-dPEO-PO-dEO



Size exclusion chromatography of the product:
(dPEO-PO-dEO) triblock copolymer:
PPO center Block M_n=1,700, M_w=1,800, PDI=1.1
Block Copolymer EO(3,400)-b-PPO(1,700)-b-EO(3,400), PDI=1.08
Dp: dEO(78)-b-PO(30)-b-dEO(78)