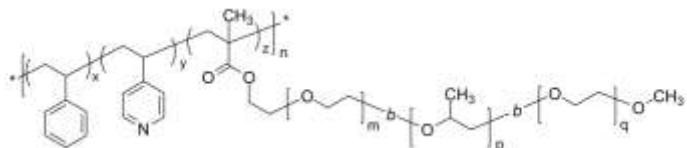


Sample Name: Random copolymer of Poly (styrene-co-4-vinyl pyridine-co-[poly (ethylene oxide-b-propylene oxide-b-ethylene oxide)] methacrylate)

Sample #: P40954-S4VPEOPOEOran

Structure:



Composition:

$M_n \times 10^3$	PDI
58.0	2.22

S: 4VP: ratio	12:78
4VP:EOPOEO ratio	76:24
S:4VP:EOPOEO ratio After normalization	10:68:22
Macromonomer Lot # P10863 EOPOEO-MA 0.30-b-1.0-b-0.30	Dp: 7-b-18-b-7

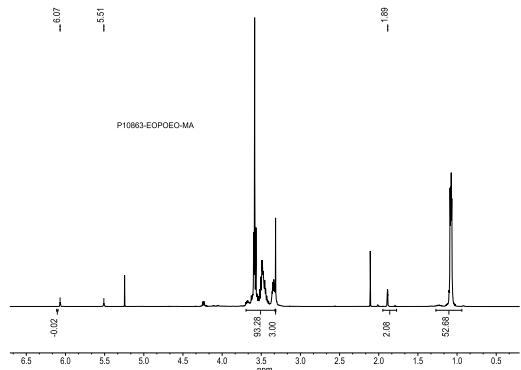
Characterization:

The polymer analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from $^1\text{H-NMR}$ spectroscopy.

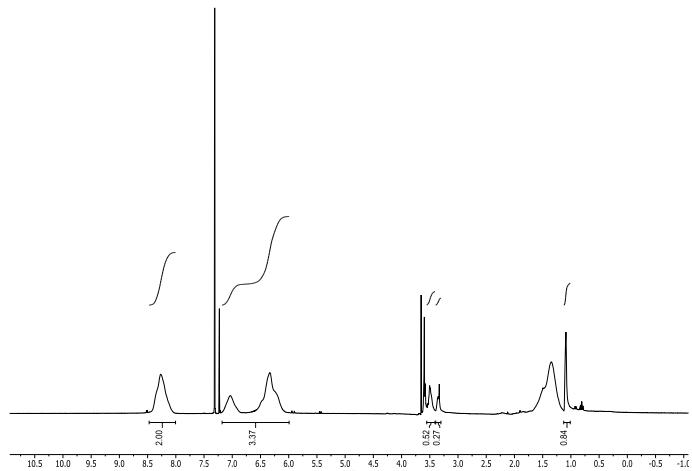
Solubility:

The polymer is soluble in acetone, DMF, methanol. It precipitates from, ether and hexane.

HNMR of EOPOEO Macromonomer: EOPOEO First Block Mpeg



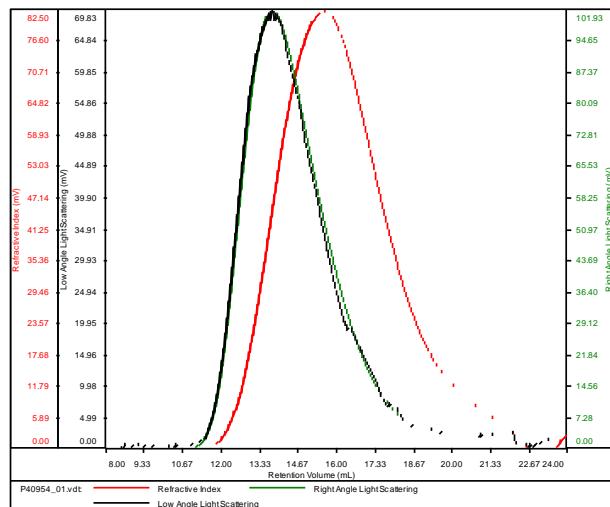
^1H NMR spectrum of the random copolymer:



SEC elugram of the Sample:

P40954

Conc	9.3571
dr/dc	0.1530
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80K_2018-02-09-0000.vcm



Sample	M_n	M_w	M_p	M_w/M_n	IV
P40954_01.vdt	57,800	128,560	86,538	2.224	0.4452