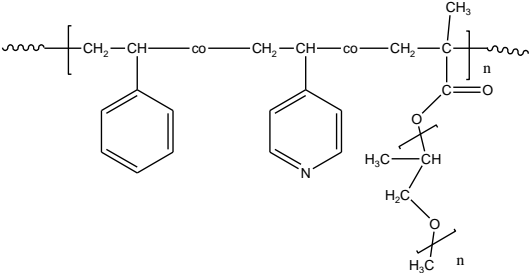


Sample Name: **Random Copolymer Poly(styrene-co-4-vinylpyridine –co-propylene glycol methyl ether methacrylate)**

Sample #: **P40996-S4VPPGMAn**

Structure:



Composition:

Mn x 10 <sup>3</sup> PS-co-P4VP-co-PGMA	PDI
253.0	1.9
S:4VP:PGMA mole ratio	4:84:12
Mn of Propylene glycol methyl ether methacrylate : ~2000	Values of n : 34 units

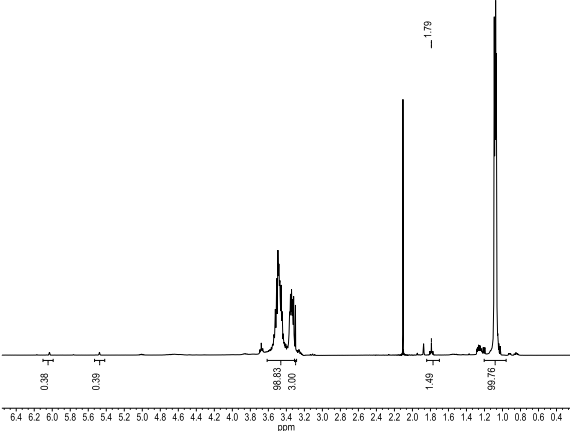
Synthesis Procedure:

The polymer was prepared by RAFT polymerization of styrene, 4-vinylpyridine, and poly(propylene glycol) methyl ether methacrylate (M<sub>n</sub>[PPO]=2000 g/mol). (Lot# P40994)

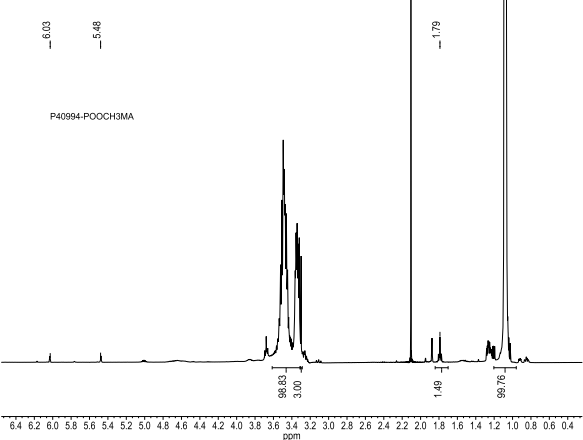
Characterization:

The polymer was characterized by <sup>1</sup>H-NMR and size exclusion chromatography (SEC).

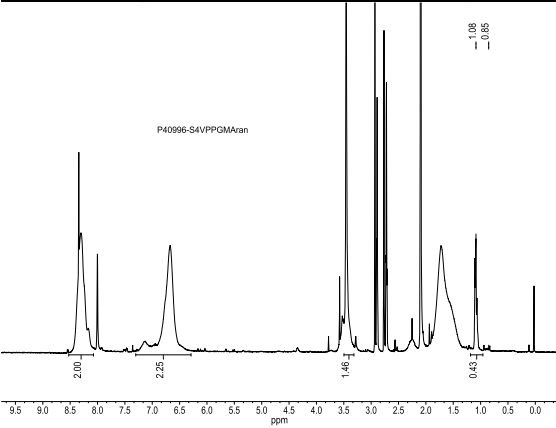
<sup>1</sup>HNMR spectrum of poly (propylene oxide) methyl ether:



<sup>1</sup>HNMR spectrum of poly([propylene oxide methyl ether] methacrylate):

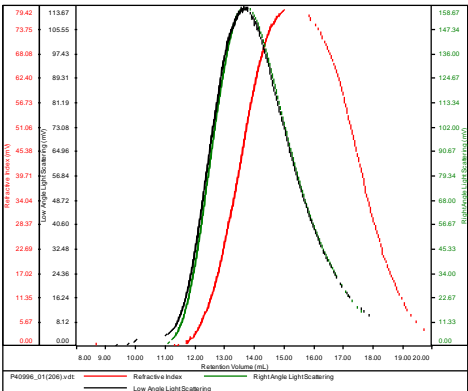


<sup>1</sup>H-NMR Spectrum of the random copolymer:



SEC of the random copolymer:

P40996-S4VPPGMAn	
Conc	20.7216
dn/dc	0.0650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS-80K_2018-04-02-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40996_01(206).vcl	252,714	498,386	356,706	1.972	0.2549