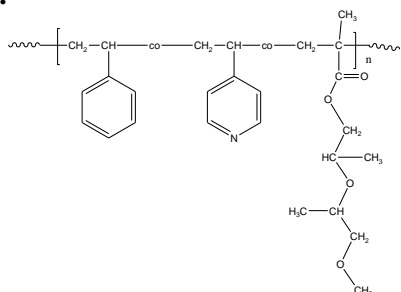


Sample Name: Random Copolymer Poly (styrene-co-4-vinylpyridine –co-propylene glycol methyl ether methacrylate)

Sample #: P41044-S4VPPGMAran

Structure:



Composition:

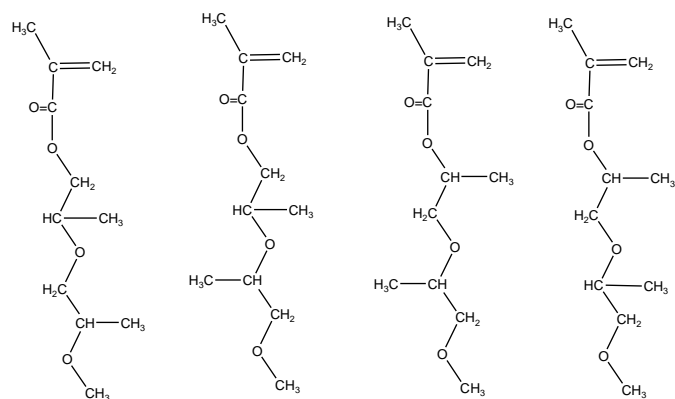
$M_n \times 10^3$	PDI
193.0	1.9
S:4VP: PGMA mole ratio	13:58:29
M_n of Poly(propylene glycol) methacrylate	261

Characterization:

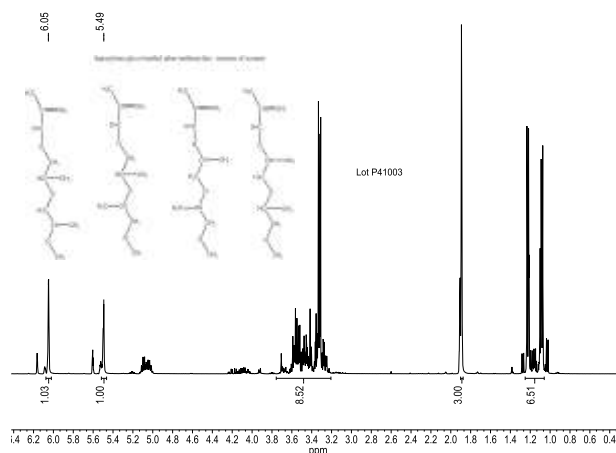
Polymer analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from ^1H -NMR spectroscopy.

Note: Propylene glycol methacrylate is Dipropylene glycolmethacrylate (dimer) : mixture of isomers

dipropylene glycol methyl ether methacrylate : mixture of isomers



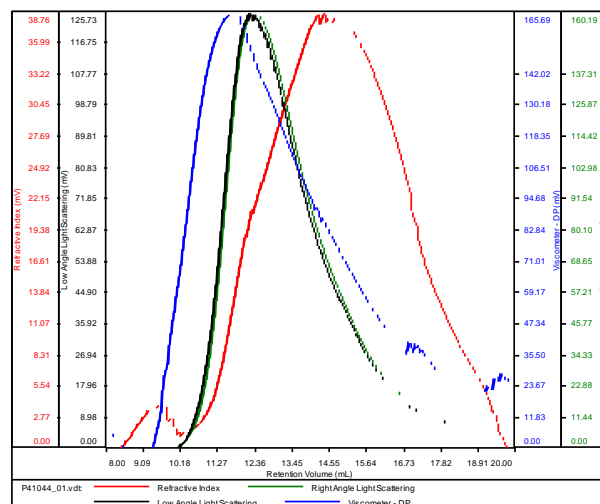
^1H -NMR of dipropylene glycolmethacrylate (dimer) monomer used in this synthesis (Mixture of isomers):



SEC elugram of the copolymer:

P41044-S4VPPGMAran

Conc	5.0098
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80K_2018-03-09-0000.vcm



Sample	M_n	M_w	M_p	M_w/M_n	IV
P41044_01.vdt	193,181	372,953	255,507	1.931	1.8158