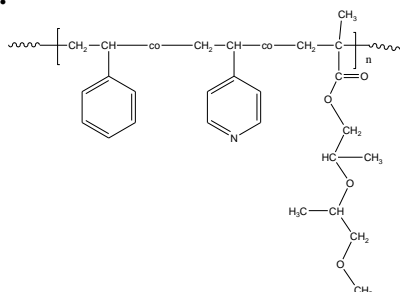


Sample Name: Random Copolymer Poly (styrene-co-4-vinylpyridine –co-propylene glycol methyl ether methacrylate)

Sample #: P41045-S4VPPGMARAN

Structure:



Composition:

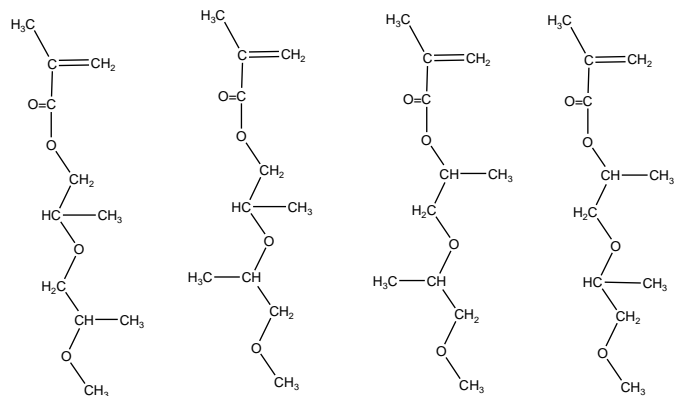
$M_n \times 10^3$	PDI
57.0	1.6
S:4VP: PGMA mole ratio	10:60:30
M_n of Poly(propylene glycol) methacrylate	261

Characterization:

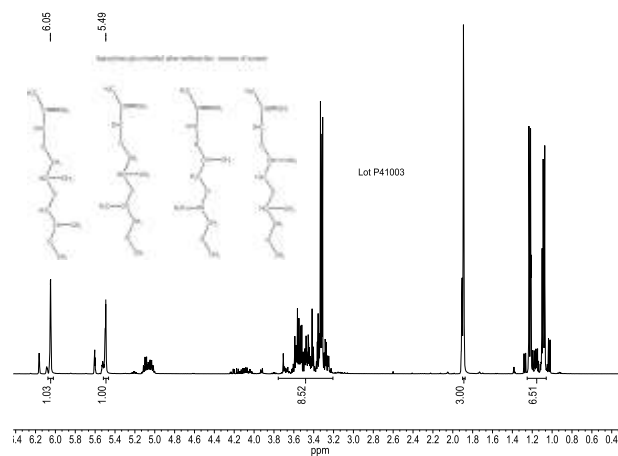
Polymer analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from $^1\text{H-NMR}$ spectroscopy.

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

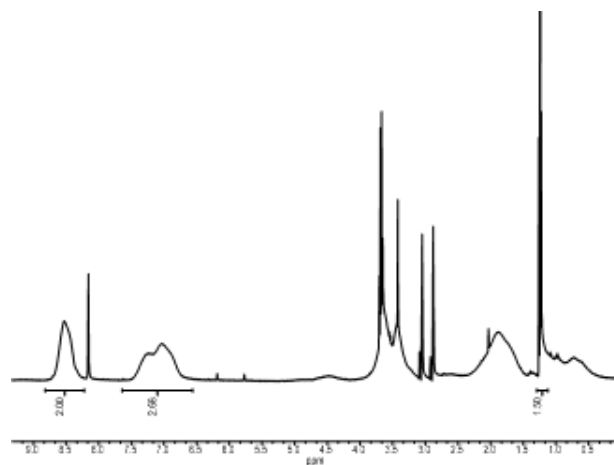
dipropylene glycol methyl ether methacrylate : mixture of isomers



HNMR of dipropylene glycolmethacrylate (dimer) monomer used in this synthesis (Mixture of isomers):



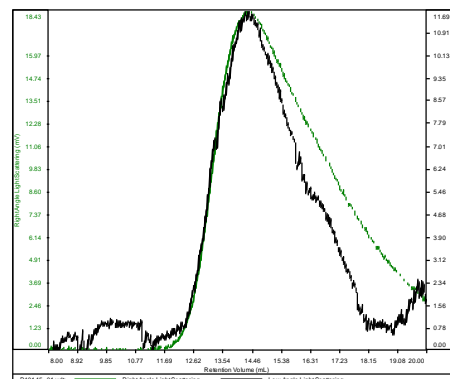
$^1\text{H-NMR}$ spectrum of the polymer:



SEC elugram of the copolymer:

P41045-S4VPPGMARAN

Conc	2.5028
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k_2018-03-09-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40145_01.vcl	57,186	94,191	59,814	1.647	0.4018