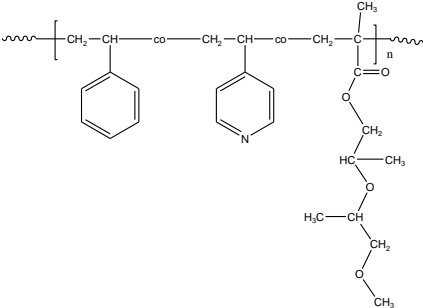


Sample Name: **Random Copolymer Poly(styrene-co-4-vinylpyridine –co-propylene glycol methyl ether methacrylate)**

Sample #: **P41008B-S4VPPGMAran**

Structure:



Composition:

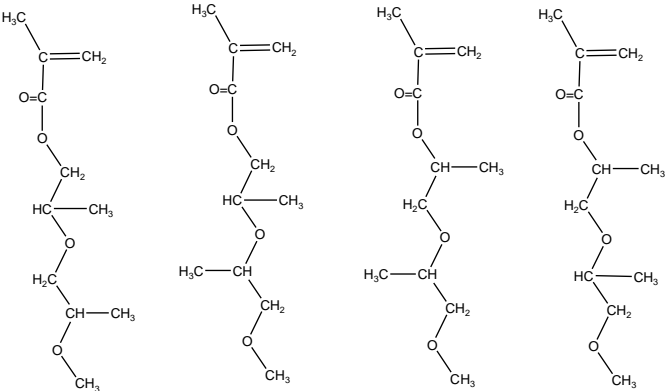
Mn × 10 ³	PDI
272.0	1.3
S:4VP: PGMA mole ratio	9:60:31
Mn of Poly(propylene glycol) methacrylate	261

Characterization:

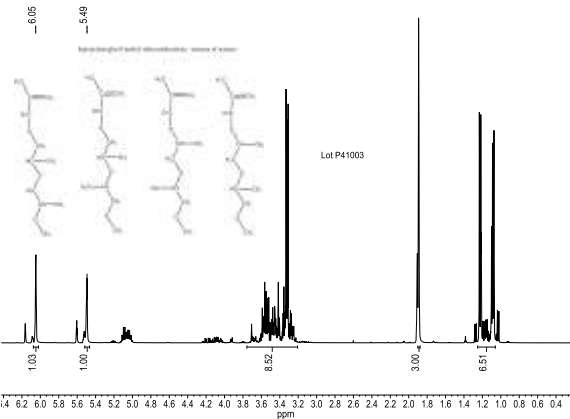
Polymer analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from ¹H-NMR spectroscopy.

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

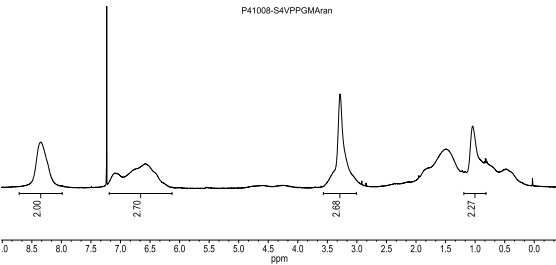
dipropylene glycol methyl ether methacrylate : mixture of isomers



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



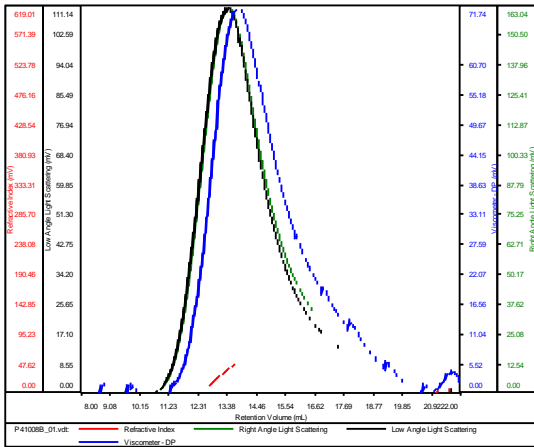
¹H NMR spectrum of the polymer:



SEC elugram of the copolymer:

P41008B-S4VPPGMAran

Conc	4.3646
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
P41008B_01.vcl	272,687	357,615	325,847	1.311	0.6180