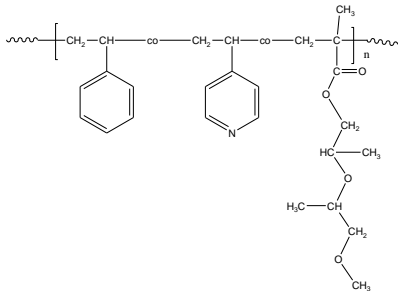


Sample Name: Random Copolymer Poly (styrene-co-4-vinylpyridine –co-propylene glycol methyl ether methacrylate)

Sample #: P41008-S4VPPGMARAN

Structure:



Composition:

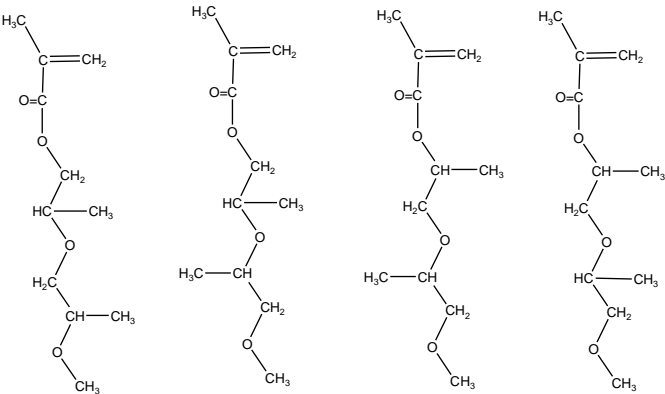
Mn × 10 ³	PDI
503.0	1.35
S:4VP: PGMA mole ratio	9:60:31
Mn of Poly(propylene glycol) methacrylate	261

Characterization:

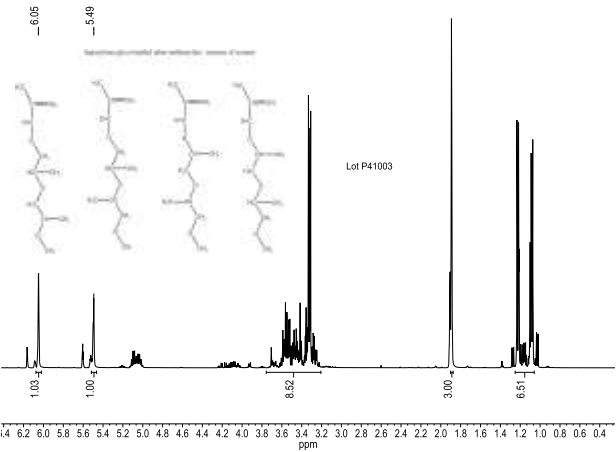
Polymer analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from ¹H-NMR spectroscopy.

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

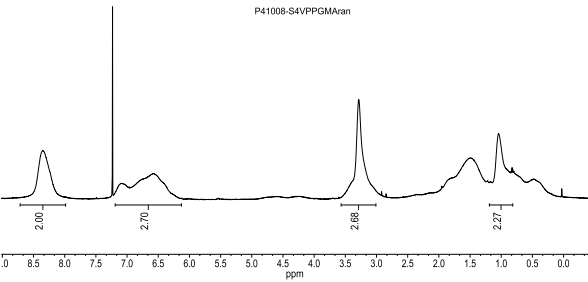
dipropylene glycol methyl ether methacrylate : mixture of isomers



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



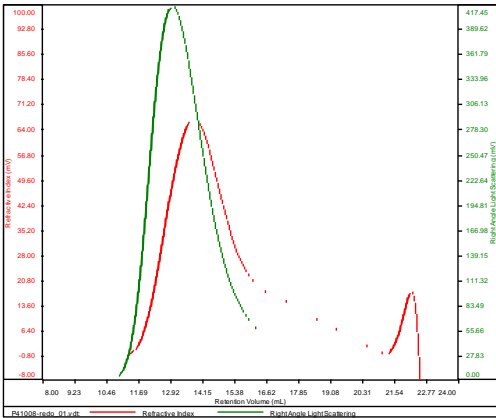
¹HNMR spectrum of the polymer:



SEC elugram of the copolymer:

P41008-S4VPPGMARAN

Conc	5.6375
dn/dc	0.1650
Solvent	DMF w 0.023MLIBr
Flow Rate	0.7000
Method	PS80k_2018-03-09-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P41008-redo_01.vdt	502,707	679,742	598,517	1.352	0.8331