Supporting information

Scheme S1 The proposed mechanism of prepared modified MF resins reaction. (a) Methylolation of melamine with formaldehyde; (b) prepolymer formation of trimethylol melamine and melamine; (c) methylolation of benzoguanamine with formaldehyde; (d) methylolation of benzoguanamine with formaldehyde; (e) prepolymer formation of trimethylol melamine and benzoguanamine; (f) formation of Modified MF Resin/PVA semi-IPN composite.