

Supplementary Materials

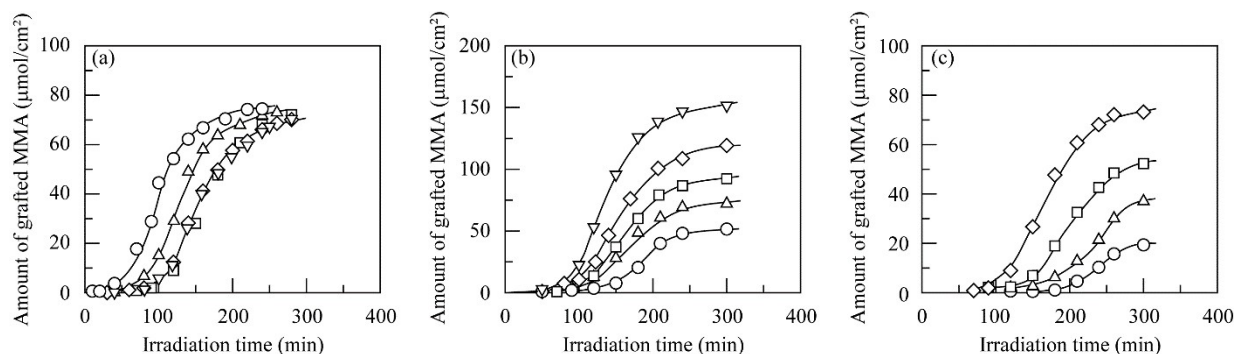


Figure S1: Changes in the amount of grafted MMA with the irradiation time for the photograftings (a) at the methanol concentration of the solvent of 50 (○), 60 (△), 70 (□), 80 (◇), and 90 (▽) vol% at 1.0 M and 60°C, (b) at the monomer concentration of 0.75 (○), 1.0 (△), 1.25 (□), 1.5 (◇), and 2.0 (▽) M in a 70 vol% aqueous methanol solution at 60°C, and (c) at the grafting temperature of 40 (○), 50 (△), 55 (□), and 60 (◇) °C in a 70 vol% aqueous methanol solution at 1.0 M.

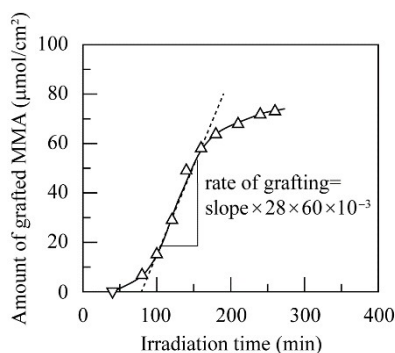


Figure S2: Determination of the rate of grafting under the steady conditions.

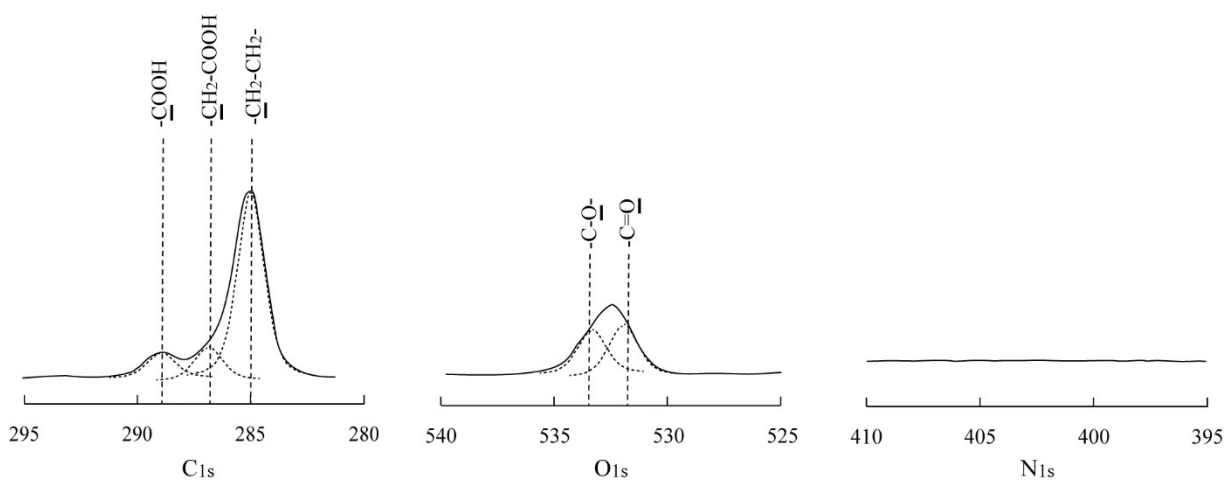


Figure S3: The high-resolution spectra of C_{1s} , O_{1s} , and N_{1s} for the PE-g-PMMA plate