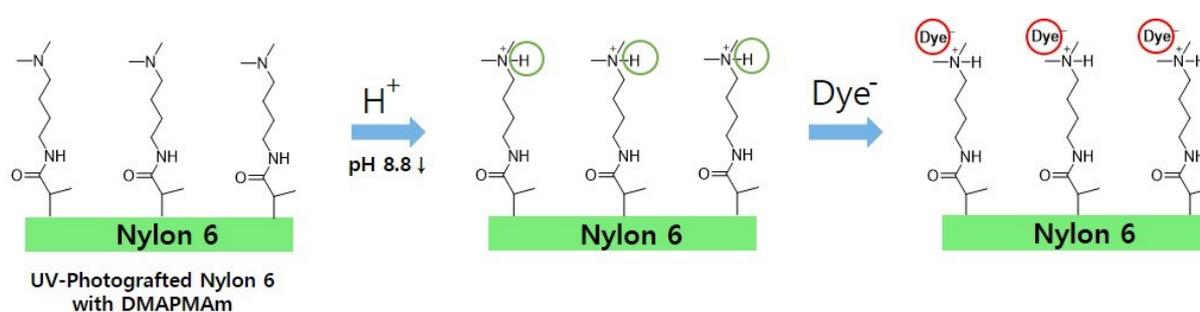
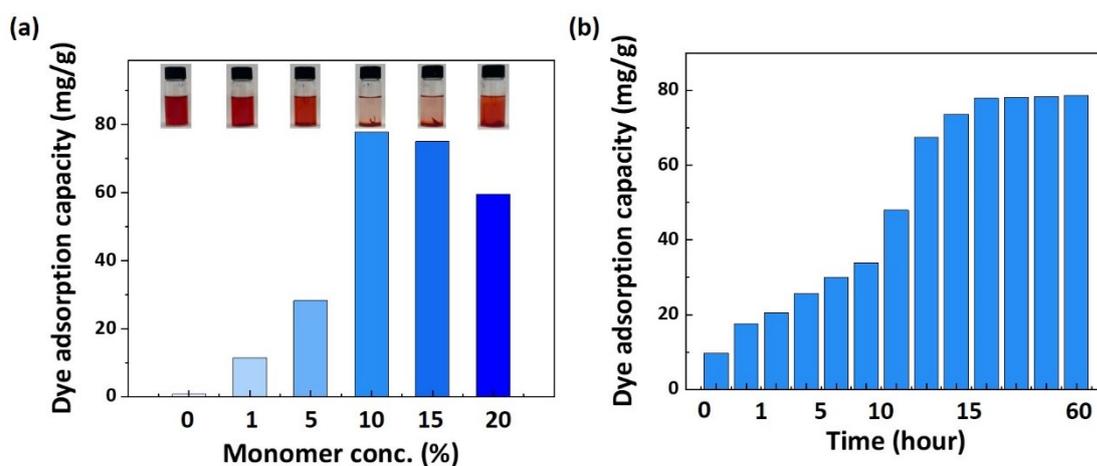


**Figure S1:** FT-IR spectra of the Nylon substrate and UV-photografted filter.



**Figure S2:** UV-photografting of DMAPMAM and dye adsorption mechanism.



**Figure S3:** Dye adsorption capacity according to (a) concentration of DMAPMAM (b) over time.