

Supplementary Material

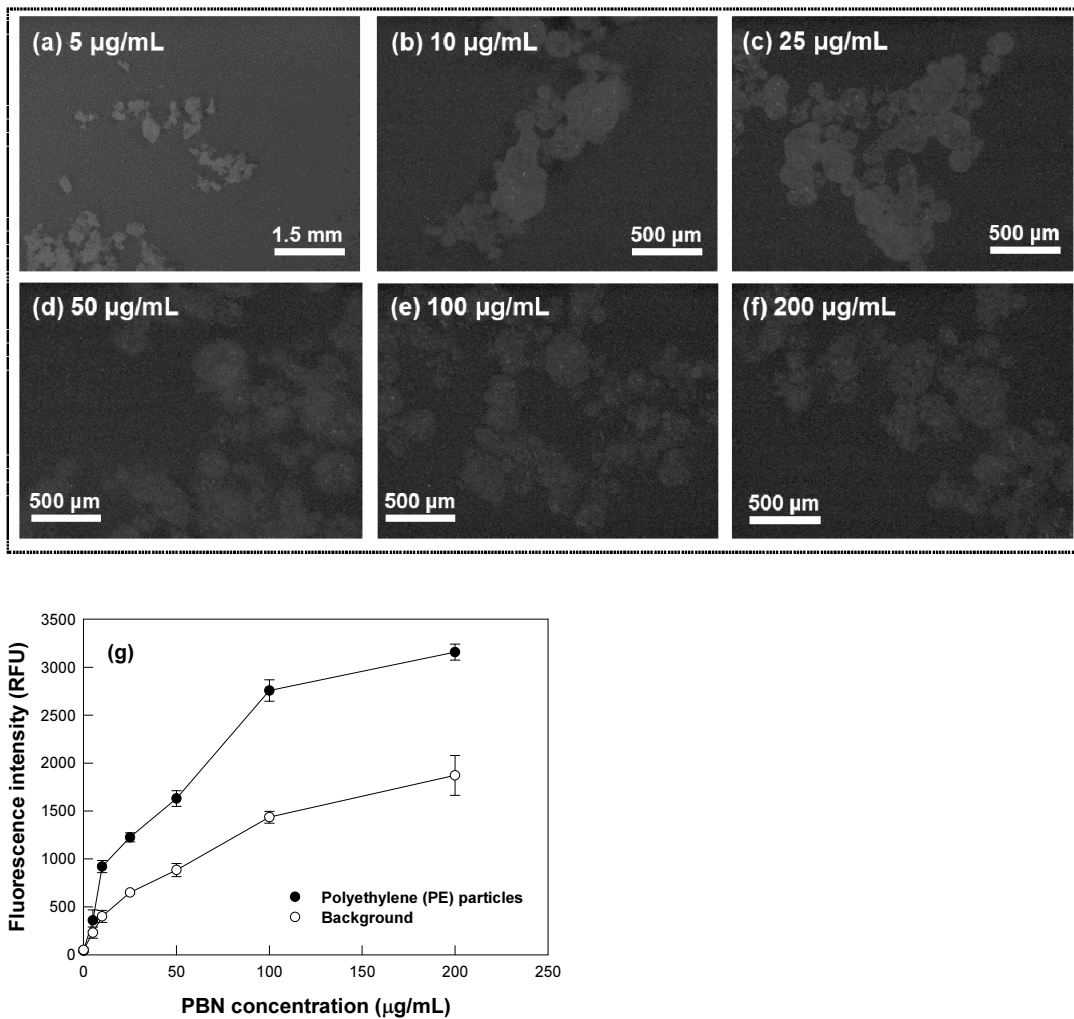


Fig. S1. (a-f) Optical images of polyethylene (PE) polymer stained for 5 min with various concentrations of PBN, specifically (a) 5, (b) 10, (c) 25, (d) 50, (e) 100, and (f) 200 µg/mL. (g) Fluorescence intensities of PE particles and its surrounding background in the presence of the various PBN concentrations ($n = 6$).

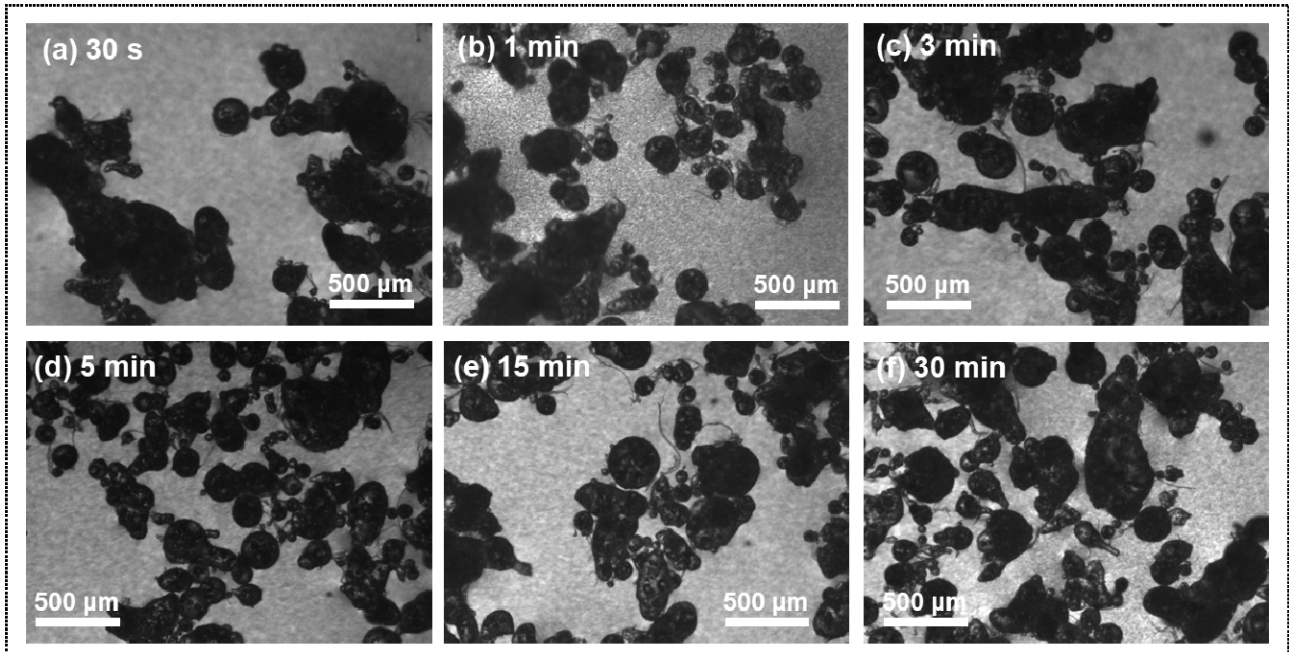


Fig. S2. Optical images of polyethylene (PE) particles stained with the PBN fluorophore of 100 μg/mL for various incubation times, specifically (a) 30 s, (b) 1 min, (c) 3 min, (d) 5 min, (e) 15 min, and (f) 30 min.

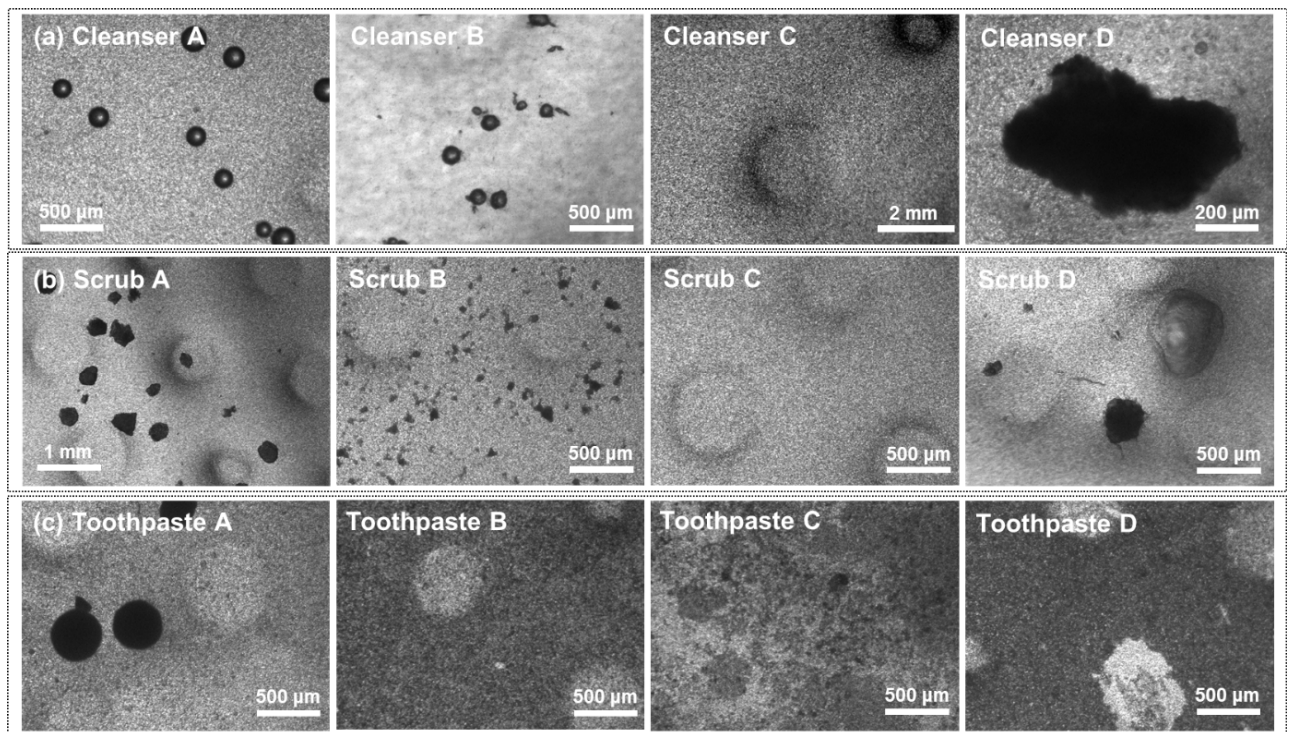


Fig. S3. Optical images of microplastics in samples of consumer products. (a) upper, (b) middle, and (c) bottom rows of each panel indicate cleanser, scrub, and toothpaste samples, respectively.