

Supplementary Table 1. Raman analysis results of the samples

	Replicates	Number of total microplastics	MP polymer	Range dimensional class (µm)	Number of microplastics	Number of fibers in microplastics	
Control	1°	17	PP	5-10	1	-	
				10-20	2	-	
				20-50	7	2	
				50-100	2	1	
				≥100	5	2	
	2°	56	PP	5-10	3	-	
				10-20	7	2	
				20-50	22	6	
				50-100	14	6	
				≥100	10	5	
	3°	26	PP	5-10	1	-	
				10-20	3	-	
				20-50	7	3	
				50-100	5	3	
				≥100	7	3	
			PE	10-20	2	-	
			PET	20-50	1	-	
			PP	5-10	5	-	
1 Month	1°	103	PP	5-10	5	-	
				10-20	26	1	
				20-50	51	9	
				50-100	16	3	
				≥100	1	-	
				PE	5-10	1	-
					10-20	1	-
					20-50	1	-
					5-10	1	-
					10-20	1	-
				PS	5-10	1	-
					10-20	1	-
					20-50	1	-
					5-10	1	-
					10-20	1	-
2°	56	PP	5-10	1	-		
			10-20	10	2		
			20-50	27	1		
			50-100	12	3		
			≥100	1	-		
			PS	20-50	1	-	
				5-10	1	-	
				10-20	2	-	
				20-50	2	3	
				10-20	3	-	
3°	47	PP	10-20	3	-		
			20-50	27	3		
			50-100	12	4		
			20-50	4	-		
			50-100	1	-		
			PE	20-50	4	-	
				50-100	1	-	
				50-100	1	-	

(Continued to the next page)

Supplementary Table 1. Continued

	Replicates	Number of total microplastics	MP polymer	Range dimensional class ( $\mu\text{m}$ )	Number of microplastics	Number of fibers in microplastics			
3 Months	1°	281	PP	5–10	10	1			
				10–20	68	6			
				20–50	134	9			
				50–100	50	13			
				$\geq 100$	17	8			
	2°	264	PP	5–10	2	-			
				5–10	9	-			
				10–20	59	-			
				20–50	148	11			
				50–100	40	9			
				$\geq 100$	4	1			
				PE	10–20	1	-		
					20–50	1	-		
					PET	2	1		
				3°	240	PP	5–10	16	1
							10–20	48	-
							20–50	128	17
							50–100	40	7
$\geq 100$	5	2							
PE	5–10	1	-						
	10–20	1	-						
	PET	1	-						
6 Months	1°	217	PP				5–10	9	-
				10–20	53	1			
				20–50	108	14			
				50–100	39	10			
				$\geq 100$	5	3			
	PET	10–20	2	-					
		20–50	1	-					
		2°	147	PP	5–10	11	2		
	10–20				47	-			
	20–50				74	9			
	50–100				10	8			
	$\geq 100$	4	3						
		PET	10–20	1	-				
			3°	249	PP	5–10	30	-	
	10–20					89	1		
20–50	109	23							
50–100	19	6							
$\geq 100$	1	1							
PE	10–20	1	-						

MP, microplastic; PP, polypropylene; PE, polyethylene; PET, polyethylene terephthalate; PS, polystyrene.