

SUPPORTING INFORMATION

Microplastics in Widely Used Polypropylene-Made Food Containers

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14 **Table S1. Information on Sampling Sites and Materials of Take-Out Food**
15 **Containers.**

	Sampling site		<i>n</i>	Recycling symbol	Identification code
Hangzhou (<i>n</i> = 35)	Shangcheng District	6 restaurants	10		JQ-500; B-T2; #1422; 1RR-N
	Xihu District	9 restaurants	14		
	Binjiang District	6 restaurants	7		
	Gongshu District	3 restaurants	4		
Xining (<i>n</i> = 37)	Chengdong District	7 restaurants	13		2B3J; JA-100; JB-B2
	Chengxi District	9 restaurants	12		
	Chengbei District	7 restaurants	12		
Dalian (<i>n</i> = 32)	Zhongshan District	8 restaurants	10		A-10-B; T-6; G01
	Xigang District	8 restaurants	9		
	Shahekou District	6 restaurants	13		
Qingdao (<i>n</i> = 28)	Laoshan District	5 restaurants	11		0FFF; La-4; JBC
	Shibei District	6 restaurants	10		
	Licang District	6 restaurants	7		
Guangzhou (<i>n</i> = 21)	Baiyun District	4 restaurants	5		Qsd-3-1; 002; B-T2; 24BD
	Tianhe District	5 restaurants	6		
	Yuexiu District	6 restaurants	6		
	Huadu District	2 restaurants	4		
Chengdu (<i>n</i> = 27)	Jinniu District	4 restaurants	6		230; ID-D; JA-100; 9W2
	Qingyang District	4 restaurants	6		
	Wuhou District	3 restaurants	7		
	Gaoxin District	5 restaurants	8		
Shanghai (<i>n</i> = 30)	Huangpu District	5 restaurants	10		QQ-LID; G1-0-f; US-78; H-22JB
	Xuhui District	7 restaurants	10		
	Pudong District	2 restaurants	4		
	Hongkou District	5 restaurants	6		

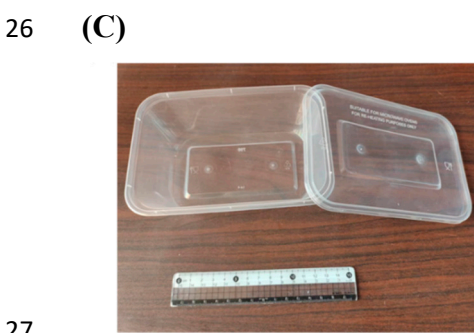
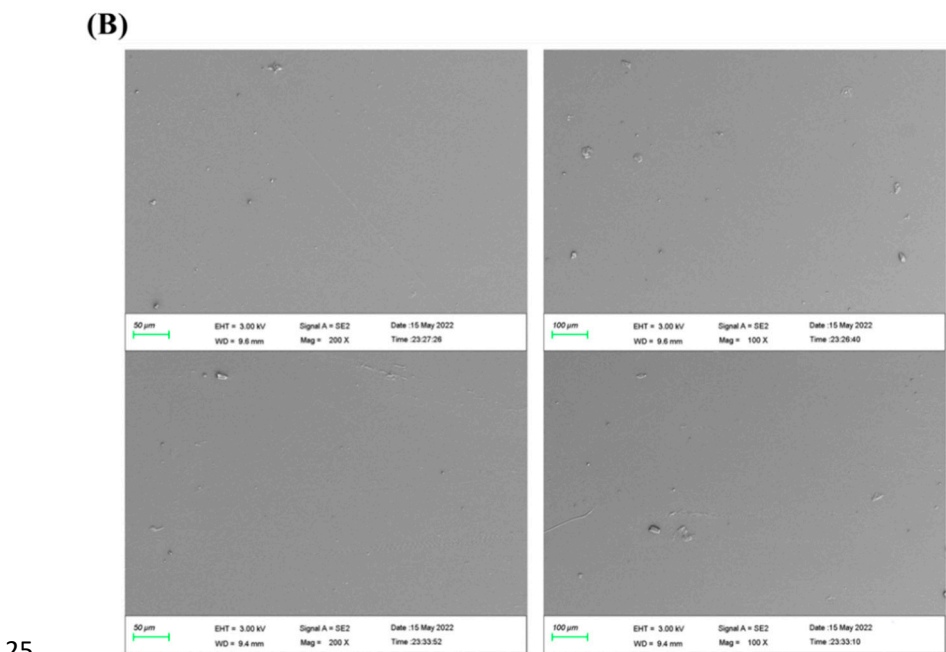
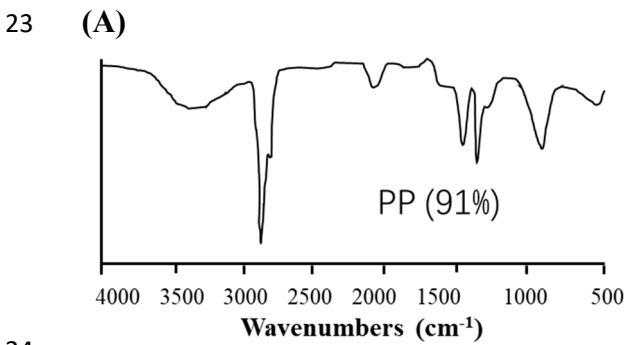
16 **Table S2. Percentage (%; Mean, Range) of Different Shape, Size, Color, and**
17 **Composition of Microplastics in Take-Out Food Containers Collected from**
18 **Chinese Cities.**

Shape	Chengdu	Xining	Dalian	Qingdao	Guangzhou	Hangzhou	Shanghai
Fiber	75 63–81	83 73–90	71 60–84	87 59–91	76 56–88	66 59–72	68 50–84
Fragment	18 10–26	14 8.1–20	23 11–30	6.2 4.2–9.3	17 12–24	28 20–37	25 10–31
Film	7.1 4.6–9.1	3.7 1.3–5.0	6.3 3.5–9.6	6.5 4.7–10	7.2 4.9–9.5	5.7 3.6–9.4	6.9 5.3–8.7
Size (μm)	Chengdu	Xining	Dalian	Qingdao	Guangzhou	Hangzhou	Shanghai
50–100	12 7.5–17	14 10–18	9.9 6.5–13	11 8.4–15	12 7.9–16	8.7 4.4–13	9.6 6.0–13
101–200	20 14–25	22 19–24	17 13–22	30 15–34	19 12–23	22 13–24	30 25–34
201–500	42 33–50	42 36–41	37 30–45	26 22–31	37 34–41	37 34–42	34 30–39
501–1000	23 17–34	16 12–19	25 17–29	25 22–29	23 19–28	21 17–25	18 13–22
> 1000	3.9 2.0–5.6	6.4 4.7–8.5	13 10–17	7.7 4.8–9.0	10 7.9–13	11 8.7–15	8.7 5.3–11
Color	Guangzhou	Hangzhou	Chengdu	Dalian	Shanghai	Xining	Qingdao
Transparent	65 60–71	73 68–77	41 35–45	56 51–62	70 61–74	42 39–46	39 34–43
White	21 17–24	22 17–26	20 15–24	17 14–22	23 20–27	12 10–15	29 24–36
Blue	9.1 6.6–14	1.2 0.47–2.6	11 6.9–15	17 13–20	1.1 0.56–1.6	15 12–17	9.3 6.4–15
Black	3.8 1.9–5.5	3.6 2.0–5.2	20 12–23	8.3 6.1–11	4.0 1.9–5.9	22 16–24	18 12–28
Yellow	1.4 0.87–1.6	0 0	7.4 4.2–11	3.2 1.9–5.2	1.6 0.88–3.3	8.6 4.7–11	5.2 3.5–7.0
Composition	Guangzhou	Hangzhou	Chengdu	Dalian	Shanghai	Xining	Qingdao
PP	65 61–70	73 70–75	61 58–66	56 52–64	70 66–75	72 67–78	59 55–65
PE	15 12–19	19 15–24	5.5 4.1–7.8	6.4 4.4–8.0	20 17–22	4.8 2.9–6.3	12 10–14
Polyester	8.9 6.1–11	1.5 0.50–2.6	9.4 5.3–15	17 12–21	1.1 0.46–1.7	5.1 2.6–8.1	9.9 6.4–13
Polystyrene	3.4 1.0–5.5	4.8 2.5–7.8	7.6 3.9–11	8.2 4.7–13	4.5 2.2–6.4	3.4 2.6–4.0	3.0 1.2–4.4
polyurethane	2.6 1.1–4.2	0 0	8.2 4.9–11	3.0 1.1–4.7	1.8 1.0–2.4	9.3 5.7–11	5.3 2.8–7.7
Others	4.7 2.3–6.6	1.7 1.0–2.3	8.1 4.7–14	9.3 6.6–15	2.4 1.0–4.1	5.5 2.5–7.9	11 8.5–16

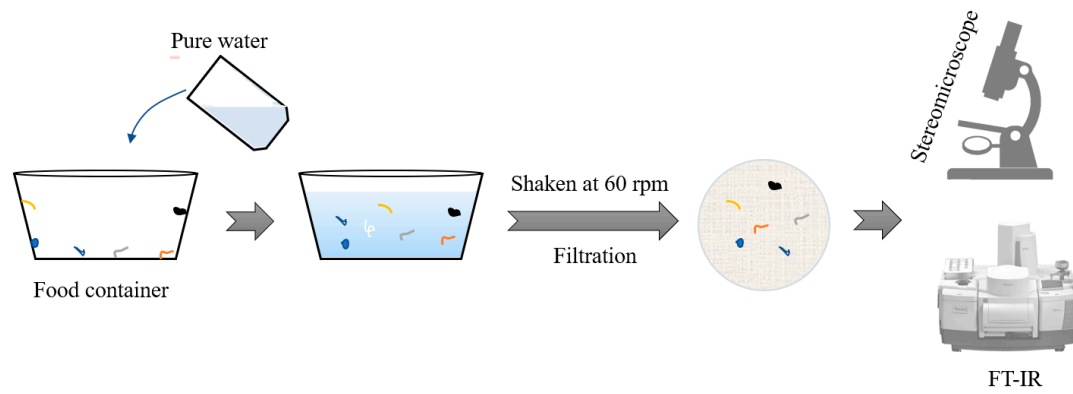
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Figure S1. The map of sampling areas in China, including Chengdu, Xining, Dalian, Qingdao, Guangzhou, Hangzhou, and Shanghai.

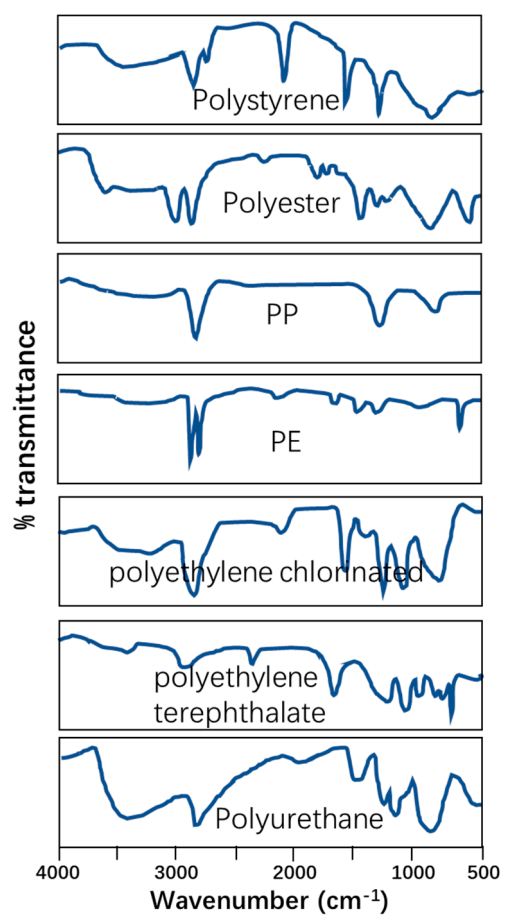


28 **Figure S2.** (A) A typical FT-IR spectrum of a TOFC sample. (B) SEM images of the
29 inner surface of TOFCs. (C) A typical TOFC sample collected in this study.



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31 **Figure S3.** The TOFC sample processing diagram.



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33 **Figure S4.** Typical FT-IR spectra of the polymers of MPs detected in TOFCs.