

CHIRON

MICROPREFS® MICROPLASTICS REFERENCE MATERIALS

ENVIRONMENTAL

Setting the Standard in Microplastics Testing with Chiron MicroPRefs®

Microplastics are plastic particles smaller than 5 millimeters that have become widespread environmental pollutants. These non-biodegradable particles accumulate in ecosystems and can enter the food and beverage supply, making them harmful to both the environment and human health.

To support accurate analysis, our scientists developed MicroPRefs® microplastics reference materials. Designed to detect the six most abundant plastics, they are available in two formats: a novel, easy-to-use soda tablet, and neat powder.

Chiron MicroPRefs® Features:

- Available polymers: PE, PP, PS, PET, PVC, and PC
- Particle size: 50-300 µm with irregular shapes that reflect real-world environmental samples
- Soda tablets: Ideal for particle counting and polymer identification by Optical Microscope, µ-FTIR, µ-Raman, LDIR
- Neat (powder) form: Optimized for polymer identification and purity analysis by Pyr-GC/MS or TED-GC/MS



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Tablet

Part No.	Chiron Part No.	Description	No. of Particles	Particle Size	Unit of Measure	Units/ Pack	
24121-65	15459.X-TAB	MicroPRefs® Blank tablet			EA	1	
24121-65X3	15459.X-TABx3	MicroPRefs® Blank tablets (3/PK)			PK	3	
24121-68	15246.X-50/300-TAB	MicroPRefs® Polyethylene tablet	50-70 particles	50-300 µm	EA	1	
24121-68X3	15246.X-50/300-TABx3	MicroPRefs® Polyethylene tablets (3/PK)	50-70 particles	50-300 µm	PK	3	
24121-71	15247.X-50/300-TAB	MicroPRefs® Polyethylene terephthalate tablet	50-70 particles	50-300 µm	EA	1	
24121-71X3	15247.X-50/300-TABx3	MicroPRefs® Polyethylene terephthalate tablets(3/PK)	50-70 particles	50-300 µm	PK	3	
24121-74	15248.X-50/300-TAB	MicroPRefs® Polystyrene tablet	50-70 particles	50-300 µm	EA	1	
24121-74X3	15248.X-50/300-TABx3	MicroPRefs® Polystyrene tablets (3/PK)	50-70 particles	50-300 µm	PK	3	
24121-77	15249.X-50/300-TAB	MicroPRefs® Polypropylene tablet	50-70 particles	50-300 µm	EA	1	
24121-77X3	15249.X-50/300-TABx3	MicroPRefs® Polypropylene tablets (3/PK)	50-70 particles	50-300 µm	PK	3	
24121-80	15250.X-50/300-TAB	MicroPRefs® Polyvinylchloride tablet	50-70 particles	50-300 µm	EA	1	
24121-80X3	15250.X-50/300-TABx3	MicroPRefs® Polyvinylchloride tablets (3/PK)	50-70 particles	50-300 µm	PK	3	
24121-83	15251.X-50/300-TAB	MicroPRefs® Polycarbonate tablet	50-70 particles	50-300 µm	EA	1	
24121-83X3	15251.X-50/300-TABx3	MicroPRefs® Polycarbonate tablets (3/PK)	50-70 particles	50-300 µm	PK	3	
24121-86	S-5401-50/300-TAB	MicroPRefs® Tablet: Mix of PE, PET, PS	70-100 particles	50-300 µm	EA	1	
24121-86X3	S-5401-50/300-TABx3	MicroPRefs® Tablets: Mix of PE, PET, PS (3/PK)	50-70 particles	50-300 µm	PK	3	

Tablet

Part No.	Chiron Part No.	Description	No. of Particles	Particle Size	Unit of Measure	Units/ Pack	
24121-89	S-5402-50/300-TAB	MicroPRefs® Tablet: Mix of PP, PVC, PC	70-100 particles	50-300 µm	EA	1	
24121-89X3	S-5402-50/300-TABx3	MicroPRefs® Tablets: Mix of PP, PVC, PC (3/ PK)	50-70 particles	50-300 µm	PK	3	

Neat

Part No.	Chiron Part No.	Description	Particle Size	Units/ Pack	Volume	
24121-92	15246.X-1MG	MicroPRefs® Polyethylene	50-300 µm	1	1 mg	
24121-92X10	15246.X-10MG	MicroPRefs® Polyethylene	50-300 µm	1	10 mg	
24121-93	15247.X-1MG	MicroPRefs® Polyethylene terephthalate	50-300 µm	1	1 mg	
24121-93X10	15247.X-10MG	MicroPRefs® Polyethylene terephthalate	50-300 µm	1	10 mg	
24121-94	15248.X-1MG	MicroPRefs® Polystyrene	50-300 µm	1	1 mg	
24121-94X10	15248.X-10MG	MicroPRefs® Polystyrene	50-300 µm	1	10 mg	
24121-95	15249.X-1MG	MicroPRefs® Polypropylene	50-300 µm	1	1 mg	
24121-95X10	15249.X-10MG	MicroPRefs® Polypropylene	50-300 µm	1	10 mg	
24121-96	15250.X-1MG	MicroPRefs® Polyvinylchloride	50-300 µm	1	1 mg	
24121-96X10	15250.X-10MG	MicroPRefs® Polyvinylchloride	50-300 µm	1	10 mg	
24121-97	15251.X-1MG	MicroPRefs® Polycarbonate	50-300 µm	1	1 mg	
24121-97X10	15251.X-10MG	MicroPRefs® Polycarbonate	50-300 µm	1	10 mg	

Neat

Part No.	Chiron Part No.	Description	Particle Size	Units/ Pack	Volume	
24121-98	15558.6-KIT-1MG	MicroPRefs® PE, PET, PS, PP, PVC, & PC Kit	50-300 µm	6	6 mg	
24121-98X10	15558.6-KIT-10MG	MicroPRefs® PE, PET, PS, PP, PVC, & PC Kit	50-300 µm	6	60 mg	

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