

# **Global Microplastic Analysis Market Size Study & Forecast, by Analyte (Polyethylene, Polystyrene, Polypropylene), by Product, by Application (Water, Soil, Air) and Regional Forecasts 2025-2035**

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## **Abstracts**

The Global Microplastic Analysis Market was valued at approximately USD 0.24 billion in 2024 and is projected to expand at a compelling CAGR of 7.50% during the forecast period 2025–2035, building upon historical assessments from 2023 and 2024, with 2024 serving as the base year for estimation. Microplastic analysis refers to the identification, quantification, and characterization of plastic particles smaller than 5 mm across environmental matrices such as water, soil, and air. As concerns around environmental toxicity, human health exposure, and ecological disruption continue to cascade across regulatory and scientific communities, analytical technologies have been increasingly leaned on to track, break down, and interpret microplastic contamination pathways. Governments, environmental agencies, academic institutions, and industrial stakeholders are collectively scaling up monitoring frameworks, which, in turn, is pushing the market forward with sustained analytical demand.

This upward trajectory is further reinforced as environmental regulations tighten and sustainability narratives shift from voluntary commitments to enforceable mandates. Microplastics have been detected in drinking water, agricultural soil, marine ecosystems, and even atmospheric samples, triggering alarm across public health and environmental governance bodies. As a result, advanced analytical workflows—ranging from spectroscopy-driven identification to high-resolution microscopy—are being taken up to support regulatory compliance, environmental impact assessments, and long-term ecological studies. In parallel, continuous improvements in detection sensitivity, data interpretation software, and standardized testing protocols are opening up new commercial avenues, while collaborative research funding and cross-border

environmental programs are amplifying adoption. Nevertheless, challenges such as high equipment costs and technical complexity remain, even as the long-term market outlook stays decisively optimistic through 2035.

**The detailed segments and sub-segments included in the report are:**

By Analyte:

Polyethylene

Polystyrene

Polypropylene

By Product:

Microscopy

Optical

Electron

Spectroscopy

FTIR

Raman

GC-MS

LC-MS

Software

Consumables

By Application:

Water

Soil

Air

Spectroscopy-based solutions are expected to dominate the market landscape over the forecast horizon, as they are increasingly relied upon for their accuracy, reproducibility, and ability to handle complex environmental samples. Among spectroscopy techniques, FTIR and Raman spectroscopy are being widely taken up for routine microplastic identification, especially in water and soil testing, where chemical fingerprinting plays a decisive role. This dominance is being reinforced by regulatory laboratories and research institutions that require validated, scalable, and high-throughput analytical platforms. While microscopy remains indispensable for morphological analysis, spectroscopy-based workflows are being leaned into more heavily, as they enable deeper chemical insights and faster decision-making across environmental monitoring programs.

From a revenue standpoint, the water application segment currently leads the Global Microplastic Analysis Market, accounting for the largest share of market income in 2024. The dominance of water testing is being driven by heightened scrutiny of drinking water safety, wastewater discharge regulations, and marine pollution monitoring initiatives worldwide. Governments and environmental agencies are increasingly channeling funding toward large-scale water surveillance programs, which, in turn, is pulling through demand for instruments, consumables, and analytical software. Meanwhile, soil and air applications are rapidly catching up, supported by growing awareness of agricultural contamination and airborne microplastic exposure. Although water remains the primary revenue generator today, soil and air analysis are anticipated to gain stronger commercial footing as multi-compartment environmental assessments become the norm.

Regionally, North America held a commanding position in the Global Microplastic Analysis Market in 2024, supported by strong environmental regulations, robust research infrastructure, and early adoption of advanced analytical technologies across the United States and Canada. Europe follows closely, driven by stringent EU environmental directives, active academic research, and comprehensive marine and freshwater monitoring programs. Asia Pacific is expected to emerge as the fastest-growing region during the forecast period 2025–2035, as rapid urbanization, industrial

expansion, and rising environmental awareness in countries such as China, India, and Japan push governments to invest heavily in pollution monitoring frameworks. Latin America and the Middle East & Africa are also gradually scaling up capabilities, aided by international collaborations, funding initiatives, and increasing recognition of microplastic pollution as a long-term environmental risk.

**Major market players included in this report are:**

Thermo Fisher Scientific Inc.

Agilent Technologies, Inc.

Bruker Corporation

Shimadzu Corporation

PerkinElmer Inc.

JEOL Ltd.

Oxford Instruments plc

Metrohm AG

Malvern Panalytical Ltd.

Horiba Ltd.

Analytik Jena GmbH

Waters Corporation

Danaher Corporation

Hitachi High-Tech Corporation

Anton Paar GmbH

## Global Microplastic Analysis Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes across different segments and countries in recent years and to project their values through 2035, while consistently anchoring estimates to the 2024 base year and historical data from 2023 and 2024. The report blends qualitative insights with quantitative analysis to decode evolving industry dynamics, regulatory pressures, and technological shifts shaping the Global Microplastic Analysis Market. It further drills down into key growth drivers, structural challenges, and emerging opportunities at the micro-market level, enabling stakeholders to align investment strategies, product development, and geographic expansion plans with future demand patterns.

### Key Takeaways:

Market estimates and forecasts for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed geographical assessment with country-level insights across major regions.

Competitive landscape profiling leading players and strategic positioning.

Analysis of key business strategies with recommendations for future market approaches.

Evaluation of the competitive structure and industry intensity.

Integrated demand-side and supply-side analysis of the market.

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