

# **Microplastic Detection Market by Type (Polyethylene, Polytetrafluoroethylene), technology (Micro-Raman Spectroscopy, Ftir Spectroscopy), Medium (Water, Soil), Size (**

<https://marketpublishers.com/r/M965BC892145EN.html>

**Date: October 2024**

**Pages: 265**

**Price: US\$ 4,950.00 (Single User License)**

**ID: M965BC892145EN**

## **Abstracts**

The Microplastic Detection market size is projected to grow from USD 4.76 billion in 2024 to USD 6.49 billion by 2029, registering a CAGR of 6.4% during the forecast period. The growth in the market for Microplastic Detection is attributed to a number of factors. New developments in spectroscopy, for example, Raman and FTIR as well as microscopy, and other analytics have now increased the ability to monitor and analyze microplastics even within the most complex environmental samples, leading to growth in the market. In many regions, plastic manufacturers and other waste management companies are mandated to track and report on their microplastic emissions, thereby creating a direct demand for reliable detection technologies.

“ Polytetrafluoroethylene accounted for the second largest share in type segment of Microplastic Detection market in terms of value.”

Polytetrafluoroethylene is the second largest type segment in the microplastic detection market, owing to its extensive use and long-term environmental persistence. IT is a versatile polymer used in many industries, including automotive, construction, cookware and electronics. Non-stick coatings on cookware, or gaskets and seals in industrial machines, can hence be seen as the causes of microplastics in the environment. Therefore, microplastics are most likely to be formed from the degradation of

polytetrafluoroethylene products due to time-dependent factors including physical abrasion, chemical reactions, or environmental exposure. They can also adsorb harmful chemicals, which may be transferred through the food chain, and pose potential risks to wildlife and human health. This has increased the requirement for effective detection and monitoring solutions that target polytetrafluoroethylene particles.

“FTIR Spectroscopy accounted for the second largest share in technology industry segment of Microplastic Detection market in terms of value.”

Fourier Transform Infrared (FTIR) spectroscopy accounted for the second largest share in the technology segment towards the detection of microplastic because it can identify and detect a wide variety of polymer types that are found in the sample of microplastic. FTIR spectroscopy has high specificity that allows a researcher to distinguish the different kinds of plastics, such as polyethylene, polypropylene, and polystyrene, found in different samples of the environment. This is essential to understand the composition and sources of microplastic pollution. Since this technology can be applied to both macro and micro-sized particles, it can be used as a highly valuable tool for the full spectre monitoring of microplastics. FTIR microscopes, integrating microscopy and spectroscopy, are useful for examining microscopic particle at micrometer scale to obtain detailed information on the size, shape, and chemical composition of microplastics.

“Soil accounted for the second largest share in medium segment of Microplastic Detection market in terms of value.”

Soil accounted for the second largest share in the medium segment of the microplastic detection market due to several key factors that highlight its significance as a critical area for monitoring and analysis. Sources of microplastics in soil are agricultural activities, urban runoff, decomposition of plastic wastes, and the use of biosolids and fertilizers containing plastic particles. Agricultural industries remain one of the leading causes of microplastic contamination of soils, including those manufactured from plastic mulch films, irrigation systems, and plastic-coated fertilizers. Slow decomposition of such materials tends to lead to microplastics, which are retained in the soil. This may influence both the fertility and health of the soil and its microbial communities. There is a potential pathway for their transfer to the food chain through crop uptake.

Microplastic size with 1mm-3mm accounted for the second largest share in size segment of Microplastic Detection market in terms of value.”

The Microplastics of sizes less than 1mm-3mm is the second most significant contributor in size segment for the detection of microplastics. These particles are primarily produced from the fragmentation of large pieces of plastics such as packaging materials, plastic carrier bags, and bottles. Since these particles have a larger size as compared to nano-sized microplastics, therefore it is easier to detect and quantify these microplastics through conventional methods including visual microscopy and spectroscopic methods. This size range also is important due to the significant threat it poses to marine and terrestrial wildlife; a large quantity of the particles are ingested as food by many organisms, such as fish and birds. This can lead to a blocking effect on organisms through the physical blocking of their digestive tracts, reduced nutrient intake, and even bioaccumulation of harmful chemicals, leading to effects cascading through the food chain that have an impact upon human health.

Food & beverages accounted for the second largest share in end-use industries segment of Microplastic Detection market in terms of value.”

The food and beverage industry is the second largest in the end-use segment of the microplastic detection market, due to growing concerns regarding food safety and human health risks from the presence of microplastics in foods. Microplastics have been detected in food products such as seafood, salt, honey, and even drinking water and have alerted consumers and authorities for possible ingestion and accumulation in the human body. Microplastics penetrate foodstuffs through several pathways such as plastic packaging, processing machinery and environmental factors. This widespread issue associated with the food supply chain compels major concern from the consumer towards the product safety and purity, compelling the manufacturers to address these worries and ensure integrity in their offerings.

“Asia pacific is the largest market for Microplastic Detection.”

Asia-Pacific has been the largest market for the detection of microplastics for a number of interrelated reasons, primarily its heavy industrialization, high population, and increased production and usage of plastics. China, India, Japan, and South Korea-the countries of this region-are among the world's largest producers and consumers of plastic products. Generation of enormous plastic wastes follows suit. This has led to significant plastic pollution, including microplastic contamination of marine and terrestrial habitats, mainly due to lack of waste management infrastructure in many parts of the region. The vast coastlines and high reliance on fisheries and agriculture amplify the environmental and economic risks due to microplastic pollution, thus leading to a high demand for advanced detection and monitoring solutions.

In-depth interviews were conducted with Chief Executive Officers (CEOs), marketing directors, other innovation and technology directors, and executives from various key organizations operating in the Microplastic Detection market, and information was gathered from secondary research to determine and verify the market size of several segments.

By Company Type: Tier 1 – 50%, Tier 2 – 30%, and Tier 3 – 20%

By Designation: Managers– 15%, Directors – 20%, and Others – 65%

By Region: North America – 30%, Europe – 25%, APAC – 35%, the Middle East & Africa –5%, and South America- 5%

The Microplastic Detection market comprises major players Thermo Fisher Scientific Inc. (US), Agilent Technologies, Inc. (US), Bruker (US), PerkinElmer (US), JEOL Ltd. (Japan), Shimadzu Corporation (Japan), Oxford Instruments (UK), Endress+Hauser Group Services AG (Switzerland), Danaher Corporation (US), METTLER TOLEDO (Switzerland), ZEISS Group (Germany). The study includes in-depth competitive analysis of these key players in the Microplastic Detection market, with their company profiles, recent developments, and key market strategies.

## Research Coverage

This report segments the market for Microplastic Detection market on the basis of grade, function, application, and region, and provides estimations for the overall value of the market across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, and expansions associated with the market for Microplastic Detection market.

## Key benefits of buying this report

This research report is focused on various levels of analysis — industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view of the competitive landscape; emerging and high-growth segments of the Microplastic Detection market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

**Analysis of drivers:** (Rising concerns of plastic pollution and its effect on ecosystem and human health), restraints (Absence of standardized detection method), opportunities (Advancement in machine learning and AI to enhance accuracy and speed), and challenges (Quantifying microplastics due to diverse size and shapes remains a significant technical hurdle) influencing the growth of Microplastic Detection market.

**Market Penetration:** Comprehensive information on the Microplastic Detection market offered by top players in the global Microplastic Detection market.

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, in the Microplastic Detection market.

**Market Development:** Comprehensive information about lucrative emerging markets the report analyzes the markets for Microplastic Detection market across regions.

**Market Capacity:** Production capacities of companies producing Microplastic Detection are provided wherever available with upcoming capacities for the Microplastic Detection market.

**Competitive Assessment:** In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the Microplastic Detection market.

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Product name: Microplastic Detection Market by Type (Polyethylene, Polytetrafluoroethylene), technology (Micro-Raman Spectroscopy, Ftir Spectroscopy), Medium (Water, Soil), Size ( < 1mm, 1-3mm), End-Use Industry (Water Treatment, FnB) - Global Forecast to 2029

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