

Microplastic Detection Market - A Global and Regional Analysis: Focus on End-Use Industry, Type, Detection Technique, Medium, Size, and Region - Analysis and Forecast, 2024-2033

<https://marketpublishers.com/r/MCD53C7EB3B2EN.html>

Date: February 2025

Pages: 0

Price: US\$ 5,400.00 (Single User License)

ID: MCD53C7EB3B2EN

Abstracts

Hard copy option is available on any of the options above at an additional charge of \$500. Please email us at order@marketpublishers.com with your request.

This report will be delivered in 7-10 working days. Introduction to Microplastic Detection Market

The Microplastic Detection Market is rapidly expanding, driven by growing environmental awareness, regulatory pressures, and advancements in detection technologies. As the global concern about the widespread contamination of ecosystems with microplastics continues to rise, there is an urgent need for effective monitoring and detection solutions. These solutions are essential for understanding the scale of microplastic pollution, assessing its impact on wildlife and human health, and developing strategies for mitigation.

One of the primary drivers of this market is the increasing recognition of microplastic pollution as a significant environmental threat. Microplastics, which are small plastic particles less than 5mm in size, are found in oceans, rivers, lakes, and even in the air and food supply. As governments, environmental agencies, and NGOs ramp up efforts to combat pollution, there is a growing demand for accurate and reliable detection methods. This has led to the development of innovative technologies designed to identify microplastics in various environmental matrices, including water, soil, and air. The need for high-sensitivity, real-time monitoring tools is driving demand for advanced detection technologies such as spectroscopy, microscopy, and chemical analysis.

Additionally, the increasing number of regulations and policies focused on reducing plastic waste is further fueling the growth of the microplastic detection market. Governments worldwide are implementing stringent regulations to monitor and control plastic pollution, requiring industries to adopt more sustainable practices and increase their efforts to detect and mitigate microplastics. For example, new regulations in the European Union, North America, and Asia are mandating the testing of wastewater and drinking water for microplastics, creating a significant demand for reliable detection instruments.

Another key driver is the growing interest in consumer safety and food contamination. Microplastics have been found in food products, particularly seafood, and are even present in bottled water. As public awareness of the potential risks to human health from microplastic ingestion grows, food and beverage companies, as well as regulatory bodies, are increasingly focusing on microplastic detection in food products and drinking water. This is driving innovation in analytical testing methods, including advanced chemical and biological assays for microplastic identification.

The Microplastic Detection Market is therefore poised for strong growth, fueled by a combination of regulatory pressure, public awareness, and technological advancements. As microplastic pollution continues to pose significant environmental and health risks, the demand for reliable detection and monitoring solutions will expand across industries such as environmental monitoring, wastewater management, food safety, and consumer goods. The continued development of more efficient, affordable, and accurate detection technologies will play a crucial role in shaping the market's future trajectory.

Market Segmentation:

Segmentation 1: by End-Use Industry

Water Treatment

Packaging

Cosmetics & Personal Care

Food & Beverage

Textiles

Others

Segmentation 2: by Type

Polyethylene

Polystyrene

Polypropylene

Polytetrafluoroethylene

Others

Segmentation 3: by Detection Technique

Fourier-transform Infrared Spectroscopy (FTIR)

Micro-Raman Spectroscopy

Electron Microscopy (Sem)

Optical Microscopy

Gas Chromatography-Mass Spectrometry (GC-MS)

High-Performance Liquid Chromatography (HPLC)

Pyrolysis-Gas Chromatography-Mass Spectrometry (PY-GC-MS)

Others

Segmentation 4: by Medium

Water

Soil

Air

Segmentation 5: by Region

North America

Europe

Asia-Pacific

Rest-of-the-World

How can this report add value to an organization?

Product/Innovation Strategy: This report provides a comprehensive product/innovation strategy for the microplastic detection market, identifying opportunities for market entry, technology adoption, and sustainable growth. It offers actionable insights, helping organizations gain a competitive edge, and capitalize on the increasing demand.

Growth/Marketing Strategy: This report offers a comprehensive growth and marketing strategy designed specifically for the microplastic detection market. It presents a targeted approach to identifying specialized market segments, establishing a competitive advantage, and implementing creative marketing initiatives aimed at optimizing market share and financial performance. By harnessing these strategic recommendations, organizations can elevate their market presence, seize emerging prospects, and efficiently propel revenue expansion.

Competitive Strategy: This report crafts a strong competitive strategy tailored to the microplastic detection market. It evaluates market rivals, suggests methods to stand out, and offers guidance for maintaining a competitive edge. By adhering to these strategic directives, companies can position themselves effectively in the face of market competition, ensuring sustained prosperity and profitability.

Some prominent names established in this market are:

Thermo Fisher Scientific Inc.

Agilent Technologies, Inc.

Bruker Corporation

JEOL Ltd.

PerkinElmer, Inc.

Contents

Executive Summary
Scope and Definition
Market/Product Definition
Key Questions Answered
Analysis and Forecast Note

1 MARKETS: INDUSTRY OUTLOOK

1.1 Trends: Current and Future Impact Assessment
1.2 Supply Chain Overview
 1.2.1 Value Chain Analysis
 1.2.2 Pricing Forecast
1.3 R&D Review
 1.3.1 Patent Filing Trend by Country, by Company
1.4 Regulatory Landscape
1.5 Stakeholder Analysis
 1.5.1 Use Case
 1.5.2 End User and Buying Criteria
1.6 Impact Analysis for Key Global Events
1.7 Market Dynamics Overview
 1.7.1 Market Drivers
 1.7.2 Market Restraints
 1.7.3 Market Opportunities

2 GLOBAL MICROPLASTIC DETECTION MARKET (BY APPLICATION)

2.1 Application Segmentation
2.2 Application Summary
2.3 Global Microplastic Detection Market by End-Use Industry
 2.3.1 Water Treatment
 2.3.2 Packaging
 2.3.3 Cosmetics & Personal Care
 2.3.4 Food & Beverage
 2.3.5 Textiles
 2.3.6 Others
 2.3.6.1 Agriculture
 2.3.6.2 Construction

3 GLOBAL MICROPLASTIC DETECTION MARKET (BY PRODUCTS)

3.1 Product Segmentation

3.2 Product Summary

3.3 Global Microplastic Detection Market by Type

3.3.1 Polyethylene

3.3.2 Polystyrene

3.3.3 Polypropylene

3.3.4 Polytetrafluoroethylene

3.3.5 Others

3.4 Global Microplastic Detection Market by Detection Technique

3.4.1 Fourier-transform Infrared Spectroscopy (FTIR)

3.4.2 Micro-Raman Spectroscopy

3.4.3 Electron Microscopy (Sem)

3.4.4 Optical Microscopy

3.4.5 Gas Chromatography-Mass Spectrometry (GC-MS)

3.4.6 High-Performance Liquid Chromatography (HPLC)

3.4.7 Pyrolysis-Gas Chromatography-Mass Spectrometry (PY-GC-MS)

3.4.8 Others

3.5 Global Microplastic Detection Market by Medium

3.5.1 Water

3.5.2 Soil

3.5.3 Air

3.6 Global Microplastic Detection Market by Size

3.6.1 3.6.2 1-3 MM

3.6.3 3-5 MM

4 GLOBAL MICROPLASTIC DETECTION MARKET (BY REGION)

4.1 Global Microplastic Detection Market - by Region

4.2 North America

4.2.1 Regional Overview

4.2.2 Driving Factors for Market Growth

4.2.3 Factors Challenging the Market

4.2.4 Application

4.2.5 Product

4.2.6 U.S.

4.2.6.1 Market by Application

- 4.2.6.2 Market by Product
- 4.2.7 Canada
 - 4.2.7.1 Market by Application
 - 4.2.7.2 Market by Product
- 4.2.8 Mexico
 - 4.2.8.1 Market by Application
 - 4.2.8.2 Market by Product
- 4.3 Europe
 - 4.3.1 Regional Overview
 - 4.3.2 Driving Factors for Market Growth
 - 4.3.3 Factors Challenging the Market
 - 4.3.4 Application
 - 4.3.5 Product
 - 4.3.6 Germany
 - 4.3.6.1 Market by Application
 - 4.3.6.2 Market by Product
 - 4.3.7 France
 - 4.3.7.1 Market by Application
 - 4.3.7.2 Market by Product
 - 4.3.8 U.K.
 - 4.3.8.1 Market by Application
 - 4.3.8.2 Market by Product
 - 4.3.9 Italy
 - 4.3.9.1 Market by Application
 - 4.3.9.2 Market by Product
 - 4.3.10 Rest-of-Europe
 - 4.3.10.1 Market by Application
 - 4.3.10.2 Market by Product
- 4.4 Asia-Pacific
 - 4.4.1 Regional Overview
 - 4.4.2 Driving Factors for Market Growth
 - 4.4.3 Factors Challenging the Market
 - 4.4.4 Application
 - 4.4.5 Product
 - 4.4.6 China
 - 4.4.6.1 Market by Application
 - 4.4.6.2 Market by Product
 - 4.4.7 Japan
 - 4.4.7.1 Market by Application

- 4.4.7.2 Market by Product
- 4.4.8 India
 - 4.4.8.1 Market by Application
 - 4.4.8.2 Market by Product
- 4.4.9 South Korea
 - 4.4.9.1 Market by Application
 - 4.4.9.2 Market by Product
- 4.4.10 Rest-of-Asia-Pacific
 - 4.4.10.1 Market by Application
 - 4.4.10.2 Market by Product
- 4.5 Rest-of-the-World
 - 4.5.1 Regional Overview
 - 4.5.2 Driving Factors for Market Growth
 - 4.5.3 Factors Challenging the Market
 - 4.5.4 Application
 - 4.5.5 Product
 - 4.5.6 Middle East and Africa
 - 4.5.6.1 Market by Application
 - 4.5.6.2 Market by Product
 - 4.5.7 South America
 - 4.5.7.1 Market by Application
 - 4.5.7.2 Market by Product

5 COMPANIES PROFILED

- 5.1 Next Frontiers
- 5.2 Geographic Assessment
 - 5.2.1 Thermo Fisher Scientific Inc.
 - 5.2.1.1 Overview
 - 5.2.1.2 Top Products/Product Portfolio
 - 5.2.1.3 Top Competitors
 - 5.2.1.4 Target Customers
 - 5.2.1.5 Key Personnel
 - 5.2.1.6 Analyst View
 - 5.2.1.7 Market Share
 - 5.2.2 Agilent Technologies, Inc.
 - 5.2.2.1 Overview
 - 5.2.2.2 Top Products/Product Portfolio
 - 5.2.2.3 Top Competitors

- 5.2.2.4 Target Customers
- 5.2.2.5 Key Personnel
- 5.2.2.6 Analyst View
- 5.2.2.7 Market Share
- 5.2.3 Bruker Corporation
 - 5.2.3.1 Overview
 - 5.2.3.2 Top Products/Product Portfolio
 - 5.2.3.3 Top Competitors
 - 5.2.3.4 Target Customers
 - 5.2.3.5 Key Personnel
 - 5.2.3.6 Analyst View
 - 5.2.3.7 Market Share
- 5.2.4 Shimadzu Corporation
 - 5.2.4.1 Overview
 - 5.2.4.2 Top Products/Product Portfolio
 - 5.2.4.3 Top Competitors
 - 5.2.4.4 Target Customers
 - 5.2.4.5 Key Personnel
 - 5.2.4.6 Analyst View
 - 5.2.4.7 Market Share
- 5.2.5 JEOL Ltd.
 - 5.2.5.1 Overview
 - 5.2.5.2 Top Products/Product Portfolio
 - 5.2.5.3 Top Competitors
 - 5.2.5.4 Target Customers
 - 5.2.5.5 Key Personnel
 - 5.2.5.6 Analyst View
 - 5.2.5.7 Market Share
- 5.2.6 Mettler Toledo International Inc.
 - 5.2.6.1 Overview
 - 5.2.6.2 Top Products/Product Portfolio
 - 5.2.6.3 Top Competitors
 - 5.2.6.4 Target Customers
 - 5.2.6.5 Key Personnel
 - 5.2.6.6 Analyst View
 - 5.2.6.7 Market Share
- 5.2.7 Oxford Instruments plc
 - 5.2.7.1 Overview
 - 5.2.7.2 Top Products/Product Portfolio

- 5.2.7.3 Top Competitors
- 5.2.7.4 Target Customers
- 5.2.7.5 Key Personnel
- 5.2.7.6 Analyst View
- 5.2.7.7 Market Share
- 5.2.8 Carl Zeiss AG (Zeiss Group)
 - 5.2.8.1 Overview
 - 5.2.8.2 Top Products/Product Portfolio
 - 5.2.8.3 Top Competitors
 - 5.2.8.4 Target Customers
 - 5.2.8.5 Key Personnel
 - 5.2.8.6 Analyst View
 - 5.2.8.7 Market Share
- 5.2.9 Danaher Corporation
 - 5.2.9.1 Overview
 - 5.2.9.2 Top Products/Product Portfolio
 - 5.2.9.3 Top Competitors
 - 5.2.9.4 Target Customers
 - 5.2.9.5 Key Personnel
 - 5.2.9.6 Analyst View
 - 5.2.9.7 Market Share
- 5.2.10 PerkinElmer, Inc.
 - 5.2.10.1 Overview
 - 5.2.10.2 Top Products/Product Portfolio
 - 5.2.10.3 Top Competitors
 - 5.2.10.4 Target Customers
 - 5.2.10.5 Key Personnel
 - 5.2.10.6 Analyst View
 - 5.2.10.7 Market Share
- 5.2.11 Endress+Hauser Group Services AG
 - 5.2.11.1 Overview
 - 5.2.11.2 Top Products/Product Portfolio
 - 5.2.11.3 Top Competitors
 - 5.2.11.4 Target Customers
 - 5.2.11.5 Key Personnel
 - 5.2.11.6 Analyst View
 - 5.2.11.7 Market Share
- 5.2.12 Renishaw plc
 - 5.2.12.1 Overview

- 5.2.12.2 Top Products/Product Portfolio
- 5.2.12.3 Top Competitors
- 5.2.12.4 Target Customers
- 5.2.12.5 Key Personnel
- 5.2.12.6 Analyst View
- 5.2.12.7 Market Share
- 5.2.13 Malvern Panalytical Ltd.
 - 5.2.13.1 Overview
 - 5.2.13.2 Top Products/Product Portfolio
 - 5.2.13.3 Top Competitors
 - 5.2.13.4 Target Customers
 - 5.2.13.5 Key Personnel
 - 5.2.13.6 Analyst View
 - 5.2.13.7 Market Share
- 5.2.14 JASCO, Inc.
 - 5.2.14.1 Overview
 - 5.2.14.2 Top Products/Product Portfolio
 - 5.2.14.3 Top Competitors
 - 5.2.14.4 Target Customers
 - 5.2.14.5 Key Personnel
 - 5.2.14.6 Analyst View
 - 5.2.14.7 Market Share
- 5.2.15 Tescan Orsay Holding, a.s. (Tescan Group)
 - 5.2.15.1 Overview
 - 5.2.15.2 Top Products/Product Portfolio
 - 5.2.15.3 Top Competitors
 - 5.2.15.4 Target Customers
 - 5.2.15.5 Key Personnel
 - 5.2.15.6 Analyst View
 - 5.2.15.7 Market Share

6 RESEARCH METHODOLOGY

I would like to order

Product name: Microplastic Detection Market - A Global and Regional Analysis: Focus on End-Use Industry, Type, Detection Technique, Medium, Size, and Region - Analysis and Forecast, 2024-2033

Product link: <https://marketpublishers.com/r/MCD53C7EB3B2EN.html>

Price: US\$ 5,400.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/MCD53C7EB3B2EN.html>