

# **Packaging Testing Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Physical, Microbiological, Chemical), By Technology (Physical Test Methods, Chromatography-Based, Spectroscopy & Photometric-Based, Others), By Industry (Food & Beverage, Pharmaceuticals, Agrochemicals, Personal Care, Others), By Region & Competition, 2020-2030F**

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## **Abstracts**

### Market Overview

The Global Packaging Testing Market was valued at USD 15.14 billion in 2024 and is projected to reach USD 20.37 billion by 2030, growing at a CAGR of 5.27%. Packaging testing is a vital pre-shipment process that evaluates the ability of packaging materials to withstand various physical and environmental stressors, including pressure, vibration, shock, temperature variations, and humidity. These tests ensure that packaging effectively protects products throughout the supply chain, maintaining product quality and minimizing damage during transit. High-quality packaging is essential for customer satisfaction and brand perception, especially in global logistics networks. As consumer expectations and supply chain complexities evolve, thorough and reliable packaging testing has become indispensable for preserving product integrity and enhancing customer trust.

### Key Market Drivers

#### Growing Demand of Packaging Testing in Food & Beverage Industry

Packaging testing is critically important in the food and beverage sector, where it ensures both product safety and regulatory compliance. Effective packaging extends shelf life, maintains freshness, and protects products from contamination. The global food and drink market's substantial revenue contribution underscores the importance of robust packaging validation. In regions like the United States, where the food sector generates significant revenue, packaging testing is extensively used to verify physical durability (through compression, shock, and vibration testing) and chemical compatibility (to detect potential leaching or contamination). With rising consumer demand for packaged food and increasing regulatory scrutiny, food manufacturers are prioritizing packaging performance to uphold brand quality and safety standards.

## Key Market Challenges

### Disruptions in Supply Chain

Supply chain disruptions pose significant challenges for the packaging testing market, impacting the availability of testing equipment and raw materials. These disruptions can stem from natural disasters, geopolitical tensions, labor unrest, equipment failures, or pandemics like COVID-19. For packaging testing service providers, such disruptions delay project timelines and compromise operational efficiency. Manufacturers relying on testing services face increased risk of product damage or regulatory non-compliance when timely testing is unavailable. The COVID-19 pandemic, in particular, caused widespread shutdowns and logistical challenges, highlighting the vulnerability of global supply chains. Companies were forced to rapidly adapt to safeguard operations and maintain testing standards under constrained conditions.

## Key Market Trends

### Innovations in Testing Technologies

Advancements in packaging testing are transforming traditional approaches through the adoption of innovative, high-precision technologies. Non-destructive testing methods are gaining traction for their ability to assess packaging integrity without damaging the product. These methods improve efficiency and maintain product viability during testing. Simultaneously, automation and robotics are being integrated to enhance the speed, accuracy, and repeatability of testing processes. Furthermore, artificial intelligence (AI) and machine learning (ML) are being employed to analyze testing data in real time, enabling predictive maintenance and proactive defect detection. These smart

technologies support a more data-driven approach to quality assurance, reducing human error and enhancing decision-making. The continuous evolution of testing tools is setting new benchmarks in packaging reliability and compliance.

## Key Market Players

Intertek Group PLC

Eurofins Scientific SE

SGS SA

Bureau Veritas SA

TUV SUD AG

Campden Bri Ltd.

IFP Institute for Product Quality GmbH

DDL Inc. (Integreon Global)

Turner Packaging Limited

Nefab AB

## Report Scope:

In this report, the Global Packaging Testing Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

## Packaging Testing Market, By Type:

Physical

Microbiological

Chemical

#### Packaging Testing Market, By Technology:

Physical Test Methods

Chromatography-Based

Spectroscopy & Photometric-Based

Others

#### Packaging Testing Market, By Industry:

Food & Beverage

Pharmaceuticals

Agrochemicals

Personal Care

Others

#### Packaging Testing Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Packaging Testing Market.

## Available Customizations:

Global Packaging Testing Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### 1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### 3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

### 4. GLOBAL PACKAGING TESTING MARKET OUTLOOK

- 4.1. Market Size & Forecast
  - 4.1.1. By Value
- 4.2. Market Share & Forecast
  - 4.2.1. By Type (Physical, Microbiological, Chemical)
  - 4.2.2. By Technology (Physical Test Methods, Chromatography-Based, Spectroscopy & Photometric-Based, Others)
  - 4.2.3. By Industry (Food & Beverage, Pharmaceuticals, Agrochemicals, Personal Care, Others)
  - 4.2.4. By Region

- 4.2.5. By Company (2024)
- 4.3. Market Map
  - 4.3.1. By Type
  - 4.3.2. By Technology
  - 4.3.3. By Industry
  - 4.3.4. By Region

## **5. ASIA PACIFIC PACKAGING TESTING MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Type
  - 5.2.2. By Technology
  - 5.2.3. By Industry
  - 5.2.4. By Country
- 5.3. Asia Pacific: Country Analysis
  - 5.3.1. China Packaging Testing Market Outlook
    - 5.3.1.1. Market Size & Forecast
      - 5.3.1.1.1. By Value
    - 5.3.1.2. Market Share & Forecast
      - 5.3.1.2.1. By Type
      - 5.3.1.2.2. By Technology
      - 5.3.1.2.3. By Industry
  - 5.3.2. India Packaging Testing Market Outlook
    - 5.3.2.1. Market Size & Forecast
      - 5.3.2.1.1. By Value
    - 5.3.2.2. Market Share & Forecast
      - 5.3.2.2.1. By Type
      - 5.3.2.2.2. By Technology
      - 5.3.2.2.3. By Industry
  - 5.3.3. Australia Packaging Testing Market Outlook
    - 5.3.3.1. Market Size & Forecast
      - 5.3.3.1.1. By Value
    - 5.3.3.2. Market Share & Forecast
      - 5.3.3.2.1. By Type
      - 5.3.3.2.2. By Technology
      - 5.3.3.2.3. By Industry
  - 5.3.4. Japan Packaging Testing Market Outlook

- 5.3.4.1. Market Size & Forecast
  - 5.3.4.1.1. By Value
- 5.3.4.2. Market Share & Forecast
  - 5.3.4.2.1. By Type
  - 5.3.4.2.2. By Technology
  - 5.3.4.2.3. By Industry
- 5.3.5. South Korea Packaging Testing Market Outlook
  - 5.3.5.1. Market Size & Forecast
    - 5.3.5.1.1. By Value
  - 5.3.5.2. Market Share & Forecast
    - 5.3.5.2.1. By Type
    - 5.3.5.2.2. By Technology
    - 5.3.5.2.3. By Industry

## **6. EUROPE PACKAGING TESTING MARKET OUTLOOK**

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Type
  - 6.2.2. By Technology
  - 6.2.3. By Industry
  - 6.2.4. By Country
- 6.3. Europe: Country Analysis
  - 6.3.1. France Packaging Testing Market Outlook
    - 6.3.1.1. Market Size & Forecast
      - 6.3.1.1.1. By Value
    - 6.3.1.2. Market Share & Forecast
      - 6.3.1.2.1. By Type
      - 6.3.1.2.2. By Technology
      - 6.3.1.2.3. By Industry
  - 6.3.2. Germany Packaging Testing Market Outlook
    - 6.3.2.1. Market Size & Forecast
      - 6.3.2.1.1. By Value
    - 6.3.2.2. Market Share & Forecast
      - 6.3.2.2.1. By Type
      - 6.3.2.2.2. By Technology
      - 6.3.2.2.3. By Industry
  - 6.3.3. Spain Packaging Testing Market Outlook

- 6.3.3.1. Market Size & Forecast
  - 6.3.3.1.1. By Value
- 6.3.3.2. Market Share & Forecast
  - 6.3.3.2.1. By Type
  - 6.3.3.2.2. By Technology
  - 6.3.3.2.3. By Industry
- 6.3.4. Italy Packaging Testing Market Outlook
  - 6.3.4.1. Market Size & Forecast
    - 6.3.4.1.1. By Value
  - 6.3.4.2. Market Share & Forecast
    - 6.3.4.2.1. By Type
    - 6.3.4.2.2. By Technology
    - 6.3.4.2.3. By Industry
- 6.3.5. United Kingdom Packaging Testing Market Outlook
  - 6.3.5.1. Market Size & Forecast
    - 6.3.5.1.1. By Value
  - 6.3.5.2. Market Share & Forecast
    - 6.3.5.2.1. By Type
    - 6.3.5.2.2. By Technology
    - 6.3.5.2.3. By Industry

## **7. NORTH AMERICA PACKAGING TESTING MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Type
  - 7.2.2. By Technology
  - 7.2.3. By Industry
  - 7.2.4. By Country
- 7.3. North America: Country Analysis
  - 7.3.1. United States Packaging Testing Market Outlook
    - 7.3.1.1. Market Size & Forecast
      - 7.3.1.1.1. By Value
    - 7.3.1.2. Market Share & Forecast
      - 7.3.1.2.1. By Type
      - 7.3.1.2.2. By Technology
      - 7.3.1.2.3. By Industry
  - 7.3.2. Mexico Packaging Testing Market Outlook

- 7.3.2.1. Market Size & Forecast
  - 7.3.2.1.1. By Value
- 7.3.2.2. Market Share & Forecast
  - 7.3.2.2.1. By Type
  - 7.3.2.2.2. By Technology
  - 7.3.2.2.3. By Industry
- 7.3.3. Canada Packaging Testing Market Outlook
  - 7.3.3.1. Market Size & Forecast
    - 7.3.3.1.1. By Value
  - 7.3.3.2. Market Share & Forecast
    - 7.3.3.2.1. By Type
    - 7.3.3.2.2. By Technology
    - 7.3.3.2.3. By Industry

## **8. SOUTH AMERICA PACKAGING TESTING MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Type
  - 8.2.2. By Technology
  - 8.2.3. By Industry
  - 8.2.4. By Country
- 8.3. South America: Country Analysis
  - 8.3.1. Brazil Packaging Testing Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Type
      - 8.3.1.2.2. By Technology
      - 8.3.1.2.3. By Industry
  - 8.3.2. Argentina Packaging Testing Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Type
      - 8.3.2.2.2. By Technology
      - 8.3.2.2.3. By Industry
  - 8.3.3. Colombia Packaging Testing Market Outlook

- 8.3.3.1. Market Size & Forecast
  - 8.3.3.1.1. By Value
- 8.3.3.2. Market Share & Forecast
  - 8.3.3.2.1. By Type
  - 8.3.3.2.2. By Technology
  - 8.3.3.2.3. By Industry

## **9. MIDDLE EAST AND AFRICA PACKAGING TESTING MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Type
  - 9.2.2. By Technology
  - 9.2.3. By Industry
  - 9.2.4. By Country
- 9.3. MEA: Country Analysis
  - 9.3.1. South Africa Packaging Testing Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Type
      - 9.3.1.2.2. By Technology
      - 9.3.1.2.3. By Industry
  - 9.3.2. Saudi Arabia Packaging Testing Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Type
      - 9.3.2.2.2. By Technology
      - 9.3.2.2.3. By Industry
  - 9.3.3. UAE Packaging Testing Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value
    - 9.3.3.2. Market Share & Forecast
      - 9.3.3.2.1. By Type
      - 9.3.3.2.2. By Technology
      - 9.3.3.2.3. By Industry

## **10. MARKET DYNAMICS**

- 10.1. Drivers
- 10.2. Challenges

## **11. MARKET TRENDS & DEVELOPMENTS**

- 11.1. Recent Developments
- 11.2. Product Launches
- 11.3. Mergers & Acquisitions

## **12. GLOBAL PACKAGING TESTING MARKET: SWOT ANALYSIS**

## **13. PORTER'S FIVE FORCES ANALYSIS**

- 13.1. Competition in the Industry
- 13.2. Potential of New Entrants
- 13.3. Power of Suppliers
- 13.4. Power of Customers
- 13.5. Threat of Substitute Product

## **14. COMPETITIVE LANDSCAPE**

- 14.1. Intertek Group PLC
  - 14.1.1. Business Overview
  - 14.1.2. Company Snapshot
  - 14.1.3. Products & Services
  - 14.1.4. Financials (In case of listed)
  - 14.1.5. Recent Developments
  - 14.1.6. SWOT Analysis
- 14.2. Eurofins Scientific SE
- 14.3. SGS SA
- 14.4. Bureau Veritas SA
- 14.5. TUV SUD AG
- 14.6. Campden Bri Ltd.
- 14.7. IFP Institute for Product Quality GmbH
- 14.8. DDL Inc. (Integreon Global)
- 14.9. Turner Packaging Limited
- 14.10. Nefab AB

## 15. STRATEGIC RECOMMENDATIONS

## 16. ABOUT US & DISCLAIMER

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