

Middle East Biodegradable Plastic Market Size, Share & Trends Analysis Report By Material (Starch Based, PLA, PBAT, PBS, PHA), By End Use (Packaging, Agriculture, Textiles, Consumer Goods), By Country, And Segment Forecasts, 2025 - 2033

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Abstracts

Middle East Biodegradable Plastic Market Summary

The Middle East biodegradable plastic market size was estimated at USD 117.8 million in 2024 and is projected to reach USD 213.0 million by 2033, growing at a CAGR of 6.5% from 2025 to 2033. Rising consumer demand for eco-friendly products is pushing retailers and brands to source biodegradable packaging.

This preference creates shelf share opportunities and allows suppliers with certified solutions to command price premiums. Regulation-led changes and visible corporate sustainability commitments are coalescing into the dominant trend shaping biodegradable plastic demand across the Middle East. Governments are moving from voluntary guidelines to enforceable restrictions on single-use plastics, while major retailers and food brands are actively retooling packaging specifications to meet customer expectations. This dual pressure is driving procurement teams to pilot biodegradable resin blends for retail-ready and foodservice applications. The net effect is a steady shift from niche trials to broader commercial adoption in selected product categories.

Drivers, Opportunities & Restraints

Public policy and reputational economics are the primary commercial drivers. When authorities restrict conventional single-use items or set circular economy targets,

procurement risk rises for noncompliance and brand damage. That makes biodegradable alternatives an acceptable, and sometimes necessary, line item in supplier contracts for consumer goods companies and hospitality chains. In turn, this regulatory clarity lowers procurement uncertainty and accelerates supplier investments in regional distribution and certification.

There is a sizable commercial opportunity in building regional value chains that convert agricultural residues and food waste into compostable polymers and additives. Middle Eastern logistics hubs and free zones can host compounding and conversion facilities that shorten lead times and reduce landed cost premiums for biodegradable formats. Brands can also monetize sustainability through premium positioning and B2B service offerings such as takeback or industrial composting partnerships, turning packaging into a source of differentiation rather than just cost. Evidence of rising consumer interest in sustainable packaging supports this value play.

High raw material and processing costs remain the most immediate restraint, keeping biodegradable formulations at a price premium versus commodity plastics. That economic friction is compounded by fragmented standards across governments and unclear end-of-life infrastructure for industrial composting and organic waste collection. Without interoperable certification regimes and scalable composting capacity, commercial buyers face execution risk and potential reputational exposure if claimed biodegradability cannot be demonstrated in market conditions. These combined constraints slow large-scale conversion despite strong policy signals.

Middle East Biodegradable Plastic Market Report Segmentation

This report forecasts volume & revenue growth at the regional and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the Middle East biodegradable plastic market report based on material, end use, and country:

Material Outlook (Volume, Kilotons; Revenue, USD Million, 2021 - 2033)

Starch Based

PLA

PBAT

PBS

PHA

Others

End Use Outlook (Volume, Kilotons; Revenue, USD Million, 2021 - 2033)

Packaging

Food Packaging

Non-Food Packaging

Agriculture

Textiles

Consumer Goods

Others

Country Outlook (Volume, Kilotons; Revenue, USD Million, 2021 - 2033)

Middle East

Saudi Arabia

UAE

Oman

Kuwait

Qatar

Bahrain

Israel

Turkey

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