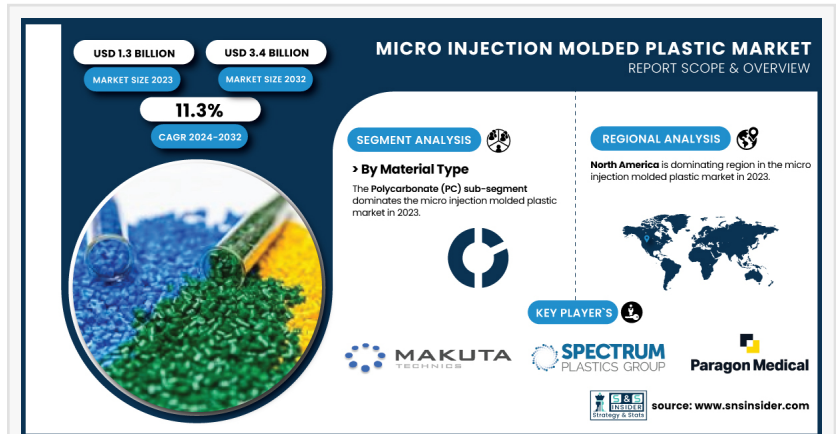


# Micro Injection Molded Plastic Market to Expand, Reaching USD 3.4 Billion by 2032 - SNS Insider

*Micro Injection Molded Plastic Market Expands with Surge in Medical and Automotive Miniaturization, Driving Innovation in Precision Manufacturing*

AUSTIN, TX, UNITED STATES, February 4, 2025 /EINPresswire.com/ -- The [Micro Injection Molded Plastic Market](https://www.snsinsider.com/micro-injection-molded-plastic-market-report) size was valued at USD 1.3 billion in 2023 and is expected to reach USD 3.4 billion by 2032 and grow at a CAGR of 11.3% over the forecast period 2024-2032.



Micro Injection Molded Plastic Market

**Technological Advancements and Rising Demand for High-Precision Components Drive Growth in the Micro Injection Molded Plastic Market**

The micro injection molded plastic market is growing rapidly due to technological advancements and the increased demand for high-precision components in healthcare, automotive, and electronics. It is driven by cost-effectiveness, lightweight properties, and the ability to produce micro-sized, intricate parts. These plastics are essential in manufacturing small components for medical devices, electronics, and optics. For instance, insulin pumps and hearing aids increasingly use these materials. The European injection molding association reports 2023 as the year 15% of injection-molded parts were micro injection molded globally. Material improvement is also in liquid-crystal polymer (LCP) and Polyether Ether Ketone (PEEK), for which new opportunities are coming forth in the areas of electronics and automotive. This market growth also gets further expedited with further investments in North American and European healthcare technologies. Companies are also concentrating on product innovation to reduce costs and enhance functionality, which is fueling the market's expansion.

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## Key Players:

- Paragon Medical (US)
- Spectrum Plastics Group, Inc. (US)
- Makuta Micro Molding (US)
- Precikam Inc. (Canada)
- MTD Micro Molding (US)
- 3M
- Accumold LLC (US)
- SMC Ltd. (US)
- Isometric Micro Molding, Inc. (US)
- BMP Medical

## Market Segmentation and Sub-Segmentation Included are:

### By Material Type

- Liquid-Crystal Polymer (LCP)
- Polyether Ether Ketone (PEEK)
- Polycarbonate (PC)
- Polyethylene (PE)
- Polyoxymethylene (POM)
- Polymethyl Methacrylate (PMMA)
- Polyetherimide (PEI)
- Polybutylene Terephthalate (PBT)
- Others

### Polycarbonate Dominates the Market with Versatility and Strength

Polycarbonate held the highest market share of 27% in 2023, driven mainly by extensive applications in the automotive and electronics sectors. It provides superior transparency, durability, and heat resistance, which has made it a favorite with manufacturers. Also, demand for PC in the optical and medical fields is gradually increasing, reflecting its versatility and reliability.

### By Application

- Medical
- Automotive
- Optics
- Electronics
- Others

### Medical Sector Leads the Way in Micro Injection Molded Plastics

In 2023, the medical sector is the largest segment of the micro injection molded plastic market, with an estimated 35% share. The growth is primarily driven by the demand for accurate and compact medical devices, including insulin pumps, catheters, and diagnostic tools. The shift of the industry toward advanced technologies for minimally invasive procedures has further fueled the expansion of this segment.

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### Supply Chain Dynamics of the Micro Injection Molded Plastic Market

- High-quality polymers like LCP, PEEK, and POM are sourced from global suppliers, mainly in North America and Europe.
- Advanced precision molding technologies create intricate, micro-sized components, requiring specialized equipment and strict quality control.
- A network of regional suppliers and wholesalers distributes micro injection molded plastics, with significant demand emerging from Asia-Pacific and Latin America.
- Final products are supplied to healthcare, automotive, electronics, and optics sectors, with growing demand driving supply chain adjustments.

The micro injection molded plastic market in 2023 was dominated by North America with a percentage share of 40%

This is mainly due to technological advancements and high demand in the healthcare and automotive sectors. The USA was one of the driving forces, especially in precision medical devices, such as insulin pumps and light automotive components that adhered to rigorous standards. Such companies that use them include Medtronic and Boston Scientific for improved performance and cost-effectiveness. A big support comes to market growth by investing in advanced material R&D in Canada. Moreover, a robust manufacturing setup, along with primary suppliers of all the main suppliers, leads to a highly viable supply chain supporting innovation as well as a solid distribution setup. Overall, with technological development complemented with industry demand sizeable enough in North America, that region sustains its strongholds in the Micro Injection Molded Plastic Market.

### Recent Developments

- November 2024: Viant acquired Knightsbridge Plastics to strengthen its high-precision polymer solutions, which expand manufacturing capabilities.
- November 2023: Milacron and FANUC showcased their all-electric Roboshot injection molding machine, praised for its high precision, efficiency, and consistency in manufacturing while strictly adhering to sectors like healthcare and automotive.

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