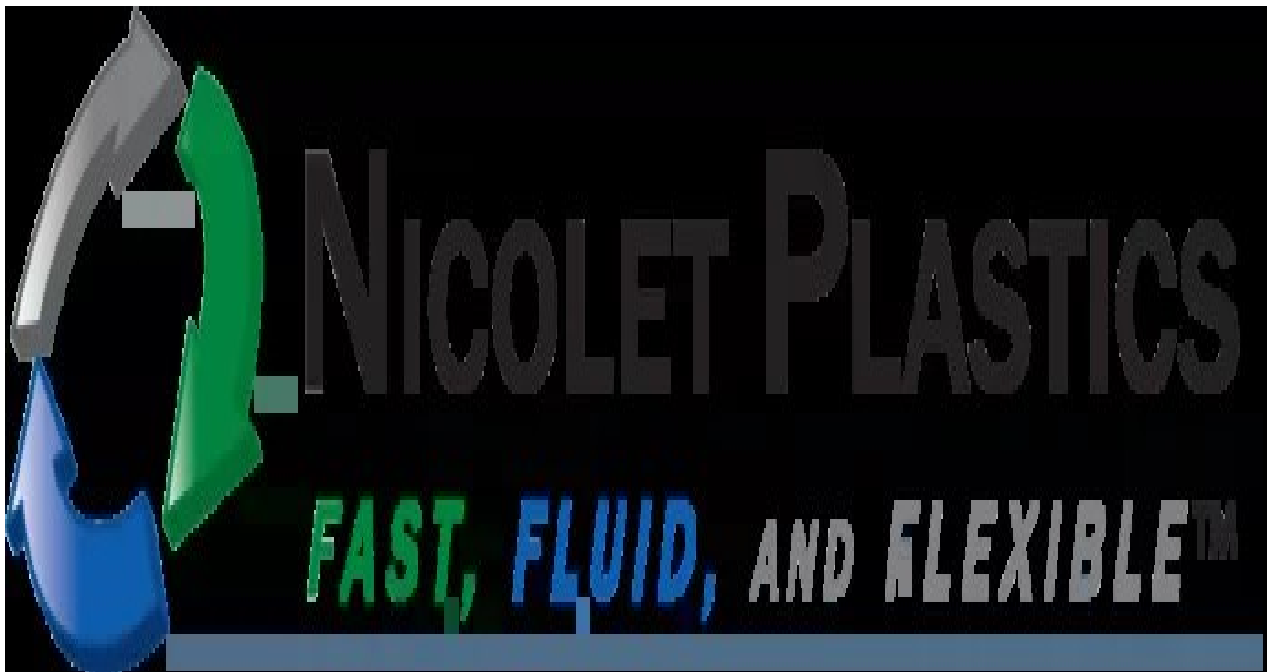




## **Nicolet Plastics Outlines Custom Plastic Injection Molding Process for Product Manufacturers**

*October 26, 2026*

JACKSON, WI - October 26, 2026 -

Nicolet Plastics LLC, a Wisconsin based plastics manufacturer, has released detailed information about its custom plastic injection molding process, describing the design, tooling, and production practices the company uses to help product manufacturers move parts from concept to full production. The announcement outlines how the manufacturer approaches complex plastic parts that depend on specific mechanical or aesthetic requirements.

Custom injection molding is a method suited to plastic components where success relies on achieving precise functional or visual features. Nicolet Plastics builds its process around the goal of helping customers produce accurate, repeatable parts, and the company notes that involving an injection molder early in development allows for added value during the design stage. The process uses polymers or plastic resins that are heated, melted, and injected under high pressure into a custom mold to produce finished parts for product manufacturing.

While the fundamental concept is long established, the company emphasizes that the work is often complex and requires a molding partner experienced in accommodating unique industry needs, specifications, end

uses, and time and budget constraints. Nicolet Plastics has structured its capabilities to address that complexity across a range of materials and mold configurations.

According to the company, its molding operations work with materials including ABS, bioplastics, polycarbonate, polypropylene, nylon, PEEK, acrylic, polyethylene, PVC, and custom engineered resins. Mold types include single-cavity, multi-cavity, family, insert, and overmolds, and the injection molding process spans high-pressure molding, liquid silicone rubber, and insert molding. The company reports a maximum part size of up to 24 inches by 24 inches by 6 inches and tolerances of plus or minus 0.001 inches.

"Custom plastic injection molding is about far more than pushing resin into a mold," said Bryce Huggins, Director of Sales at Nicolet Plastics. "When we get involved early, we can engineer unnecessary cost out of the part and the tool, anticipate problems before they reach the production floor, and give the customer a component that performs exactly the way their application demands."

A central element of the company's approach is scientific injection molding, a method it applies to critical parts that require specific performance and high precision. The company explains that scientific molding begins during tooling development, where factors such as pressure, temperature, and cavity fill time are optimized so the mold design minimizes opportunities for variation. Mold flow analysis identifies the last areas of a part to fill, shows how material will orient within the mold, and exposes potential warp and stress points before production begins.

Robust production processes extend that scientific approach through monitoring and automated process controls that reduce scrap and processing time. The company states that when a variation or malfunction occurs, it is rapidly identified and isolated before nonconforming parts are produced, supporting consistency from one production run to the next.

Beyond standard molding, Nicolet Plastics offers overmolding, which combines two or more materials into a single part. The process is frequently used to create a distinct tactile surface, such as a softer grip area, and can involve plastic over a plastic substrate or rubber over a plastic substrate through a two-shot injection molding process. In addition to aesthetic advantages, overmolding can eliminate secondary operations for products such as tools with handgrips, hand-held objects, and robotics that require rubber grips.

The company also provides insert molding, which places an object, typically metal or plastic, within a mold cavity so that plastic bonds to the insert. Threaded inserts are common and can reduce labor when used as an alternative to fasteners, adhesives, or heat-staking, while also strengthening the finished part. Inserts are loaded manually or through robotic automation depending on the application.

For components that require branding or graphics, Nicolet Plastics offers in-mold decoration and in-mold

labeling, in which a printed film overlay is added to the mold cavity prior to injection. The process creates a permanent bond between the label and the finished part and often eliminates the need for post-processing operations.

Huggins added that material selection remains one of the most important early decisions in any program. "We help customers choose from more than 200 commodity and engineering resins, and a big part of our job is balancing performance against price and finding equivalents that can reduce cost without compromising the part," he said.

Nicolet Plastics operates facilities in Mountain, Wisconsin, and Jackson, Wisconsin, and supports customers across industries including automotive, consumer goods, medical devices, packaging, and industrial products. The company also offers metal-to-plastic conversion, engineering and product support, rapid tooling, and value-added post-molding and assembly operations.

For more information about custom plastic injection molding, visit [www.nicoletplastics.com](http://www.nicoletplastics.com).

###

For more information about Nicolet Plastics, contact the company here: Nicolet Plastics Brian Torres 715-276-4200 [info@nicoletplastics.com](mailto:info@nicoletplastics.com) N174W21430 Alcan Dr, Jackson, WI 53037

## **Nicolet Plastics**

*Nicolet Plastics is a supplier of choice for companies who require expertise in the molding of complex parts out of both commodity and engineered resins.*

Website: <https://www.nicoletplastics.com/>

Email: [info@nicoletplastics.com](mailto:info@nicoletplastics.com)

Phone: 715-276-4200

