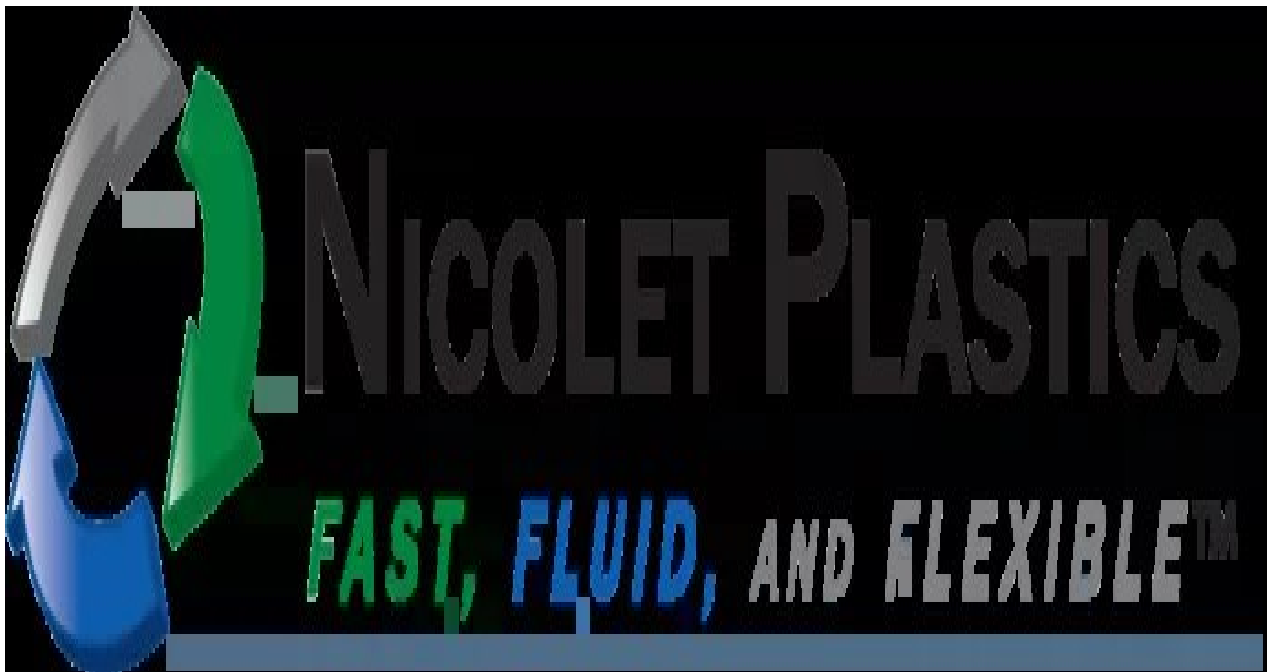




Nicolet Plastics Highlights Precision Injection Molding Guide

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Nicolet Plastics LLC, a custom plastic injection molding company operating facilities in Mountain and Jackson, Wisconsin, announced availability for manufacturers of detailed educational resources on the injection molding process through its updated informational guide. The company, which has served industrial clients since 1986, offers the resource as part of its ongoing commitment to helping engineers and product developers understand the fundamentals of thermoplastic part production.

The guide addresses common questions about the injection molding process, including material selection, mold design considerations, and production scalability. Nicolet Plastics' "What is plastic injection molding?" resource covers the full scope of the manufacturing method, from initial resin melting and pressurized injection into precision-machined molds through cooling, ejection, and quality inspection of finished components. The information is designed to support decision-makers evaluating plastic injection molding for new product development or existing part conversion projects.

Nicolet Plastics operates injection molding equipment ranging from 30 to 610 tons of clamping force, enabling the company to produce components across a wide spectrum of sizes and complexity levels. The company

maintains ISO 9001:2015 certification, reinforcing its adherence to documented quality management standards throughout the production cycle.

"Our goal with this guide is to give engineers and procurement teams a clear, practical understanding of how injection molding works and where it fits within their manufacturing strategy," said Bryce Huggins, Business Development Leader of Nicolet Plastics LLC. "We find that clients who understand the process from the outset tend to make better decisions about part design, material selection, and production volume planning."

The resource details several critical aspects of the molding process that influence part quality and production efficiency. Wall thickness specifications, which typically range from 2mm to 4mm depending on the thermoplastic material and mold geometry, receive particular attention in the guide. Maintaining consistent wall thickness throughout a molded part helps prevent common defects such as warping, sink marks, and internal stress concentrations.

Nicolet Plastics also addresses the role of tooling in the injection molding process. The company utilizes both conventional steel tooling for high-volume production runs and rapid tooling technologies, including Mantle 3D-printed tooling, for prototyping and bridge production scenarios. This range of tooling options allows manufacturers to move from concept validation to full-scale production within a single supplier relationship.

The guide further explores insert molding, a specialized technique in which metal or other pre-formed components are placed into the mold cavity before plastic is injected around them. This process creates single integrated parts that combine the structural properties of metal with the design flexibility of engineered thermoplastics, reducing secondary assembly operations and improving overall component reliability.

"Plastic injection molding remains one of the most efficient methods for producing consistent, high-volume plastic components," Huggins added. "The updated guide reflects the current state of the technology, including newer capabilities like micro molding and metal-to-plastic conversion that many manufacturers may not yet be considering for their applications."

Material selection represents another key topic within the resource. The guide outlines how different thermoplastic resins, ranging from commodity-grade polyethylene and polypropylene to engineering-grade nylon and polycarbonate, affect part performance characteristics including tensile strength, chemical resistance, thermal stability, and dimensional accuracy. Matching the correct resin to the application requirements is one of the most consequential decisions in the injection molding design process.

Nicolet Plastics provides engineering support and design-for-manufacturability consultation as part of its standard service offering. The company works with clients during the product development phase to identify potential molding challenges before tooling is cut, helping to reduce revision cycles and accelerate time to

production.

The company serves manufacturers across multiple sectors, including industrial equipment, medical devices, marine applications, aerospace components, and consumer products. Its two Wisconsin facilities allow for capacity flexibility and redundancy in production scheduling.

For more information about plastic injection molding processes and capabilities, visit nicoletplastics.com.

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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.

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