

Your First Choice Thermoset Molder





- Located west of Chicago in Addison, Illinois
- Founded in 1996 by current President, Steve Sinderson, and his father, Lee Sinderson
- Previous history dating back to 1960s with Woodland Molded Plastics, which was sold to Freudenberg-NOK in 1991 based on interest of Woodland's involvement in an intake manifold for GM's North Star Engine using lost core technology
- Custom Thermoset Molder of Bulk Molding Compound (BMC) & Phenolic resin





Company Profile

- Your First Choice Thermoset Molder
- 20,000 Sq. Ft. Manufacturing Facility
- ISO 9001:2015 certified
- Technology-Integrated Manufacturer
- Estimated Percent of Business in 2021
 - Electrical 40%
 - Appliance 30%
 - Automotive 15%
 - Energy 5%
 - Other 10%
- Sales Revenue of \$5M in 2021
- 30 Employees





Molding Processes & Material

Thermoset Molding Processes:

- Injection Molding
- Injection-Compression Molding
- Insert Molding

Thermoset Materials Molded:

- Bulk Molding Compounds (BMCs)
 - ▼ Unsaturated Polyesters
 - ▼ Vinyl Esters
- Phenolics/ Phenolic resins
- Diallyl Phthalates (DAPs)
- Epoxies





Equipment

- WPC has 15 thermoset molding machines with various processes and capabilities
- New 240T Arburg delivered November 2021
- Five 300-400T thermoset injection machines purchased Q4, 2021
- Thermoset injection machine press capacity between 25-500 tons
- Geared towards medium-long production
- All machines connected to real-time ERP manufacturing software system
- Auxiliary equipment, including:
 - Wheelabrators, Finmacs, and Inline Isper Deflash Equipment
 - Post Bake Ovens
 - Automated Degating Machine
 - Vision Inspection Systems



Additional Capabilities/Services

Additionally, Woodland Plastics offers the following capabilities and services:

Additional Processes:

- Assembly
- Deflashing
- Drilling
- Grinding
- Fixturing
- Packaging
- Pad Printing
- Painting
- Post-Baking
- Tapping

Additional Services:

- Engineering
- Design
- Mold Maintenance
- Product Development
- Tooling





Products/Applications

Woodland Plastics can fabricate both Performance and Aesthetic components:

Automotive

- Ashtrays
- Brush Holders
- Powertrain Components
- Pulleys
- Pump Housings
- Slip Rings
- Solenoids & Caps
- Transmission Components
- Under-the-Hood Components
- Valve Covers

Appliance

- Bases
- Cookware Components
- Knobs
- Handles
- Housings
- HVAC Components
- Motor Housings
- Grill Handles
- Grill Shelves
- Oven Faceplates
- Oven Control Panels

Electrical/Lighting

- Circuit Breaker Covers
- Circuit Breaker Handles
- Circuit Breaker Bases
- Electrical Enclosures
- Fuse Blocks
- Electrical Housings
- Insulators
- > Relays
- Starter Caps
- Switches
- Terminal Blocks

<u>Other</u>

- Bearings
- Downhole Centralizers
- HVAC Drain Pans
- Frac Balls
- Fuel Cell Components
- Lawn & Garden
- Oil Pans
- Pump Housings
- Slip Rings
- Thrust Washers
- Valve Housings









ERP System

In support of our commitment to quality, Woodland Plastics provides integrated manufacturing solutions to our customers as a **technology-driven manufacturer**.

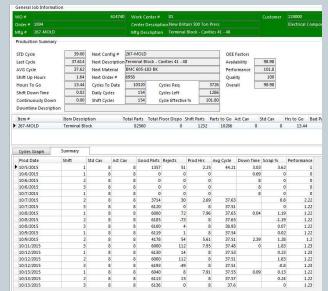
• Woodland Plastics utilizes IQMS, a plastics industry-leading manufacturing ERP software solution to manage the entire manufacturing process, including quoting and customer relationship management, real-time production data and scheduling, predictive maintenance for tooling and equipment, just-in-time product delivery, as well as project and asset management tools.



Production Schedule - Per Machine Press



Real Time Graph of Job Molding Cycles



Production Schedule - Per Job

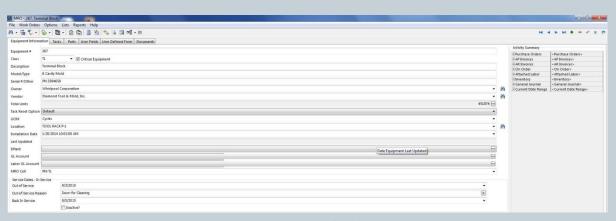
1340 W. National Ave. Addison, IL 60101

PH: (630)-543-1144

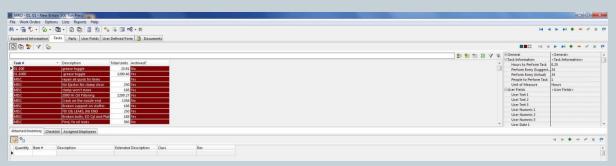
FAX: (630)-543-1525

ERP-Predictive Maintenance

Using ERP software for Predictive Maintenance



Predictive Maintenance - Tooling/Molds



Predictive Maintenance - Machine Press

A History of Quality

- QS9000 \rightarrow ISO 9001 2000 \rightarrow ISO 9001 2008 \rightarrow ISO/TS 16949 2009 \rightarrow IATF 16949 2016 \rightarrow ISO 9001 2015
- ISO 9001:2015 certified
- A copy of our quality certificate is available to download/print from WPC website:
 - https://www.woodlandplastics.com/pdf/ISO9001-2015.pdf

Technology, Teamwork, Continuous Improvement, Sense of Urgency, Always Exceeding Customers

Expectations





Using ERP for Quality

- •Incoming Material Inspection, First and Last Piece Inspections, 4-Hour Part Quality Inspection, Layered Process Audits, Final/Shipping Inspection
- Attribute and SPC data collected

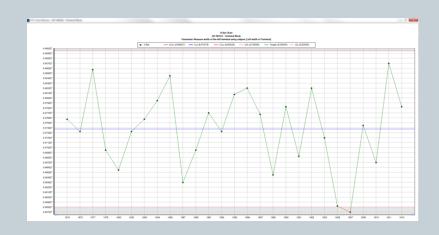




Using ERP for Quality

- •Detailed reports are exported from collected data to analyze over a specific time period
- Data is easily shared with customers and suppliers



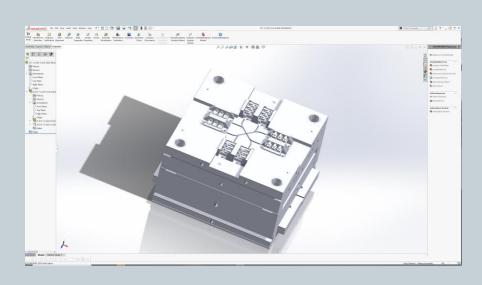


Quality Highlights

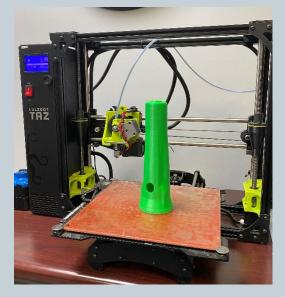
- Process Flow, Control Plans, and PFMEA
- All quality documents are in a controlled environment and accessible throughout the plant via IQMS
- Revision Control
- Instructions, training videos (English and Spanish)
- Gauge calibration is controlled through IQMS

Engineering Highlights

- Solidworks/Autocad part and tool review
- 3D printing for quick prototyping
- Engineering Change Order in IQMS







1340 W. National Ave. Addison, IL 60101

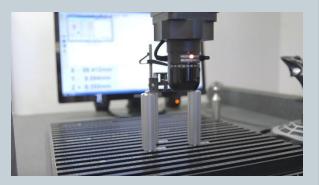
PH: (630)-543-1144

FAX: (630)-543-1525

Plant Tour













Contact Information:

Woodland Plastics Corporation 1340 W. National Avenue Addison, IL 60101

Phone: (630)-543-1144

Fax: (630)-543-1525

Email: info@woodlandplastics.com

sales@woodlandplastics.com

Website and Social Media:

- www.woodlandplastics.com
- https://twitter.com/WoodlandPlastic
- https://www.facebook.com/WoodlandPlastics
- https://www.linkedin.com/company/woodland-plastics-corporation
- https://www.youtube.com/user/WoodlandPlastics/