



Custom Molding Mastery Since 1933
Davies Molding's Unrivaled Expertise



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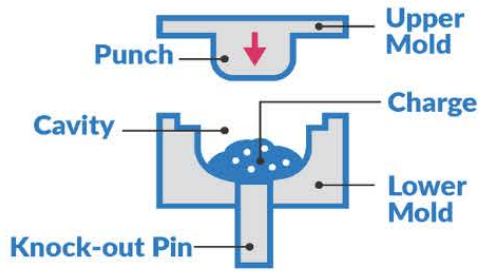
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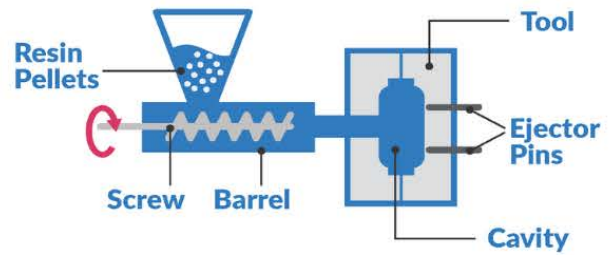
Exclusive women-owned molding company, backed by a billion-dollar multinational organization.

MOLDING PROCESS



Compression

Compression molding involves placing a thermosetting material in a mold and applying heat and pressure to create a hardened product. Its benefits include cost-effectiveness, suitability for complex shapes, and high-strength components.



Injection

Injection molding injects molten thermoplastic material into a mold, creating precise, complex parts. Its advantages include high efficiency, tight tolerances, and versatility for mass production of intricate designs.

SERVICES

INSERT MOLDING SERVICES



THREADED INSERT

Standard Material:
Brass, Steel, or Zinc-Plated



THREADED INSERT THRU-HOLE

Standard Material:
Brass, Steel, or Zinc-Plated



BUSHING

Standard Material:
Brass, Steel, or Zinc-Plated



PROJECTING STUD

Standard Material:
Steel, Stainless Steel, or Zinc-Plated



HEX NUT

Standard Material:
Steel or Zinc-Plated



SET SCREW (Slotted or Socket)

Standard Material:
Steel, Zinc-Plated, or Black Oxide Finish

SECONDARY SERVICES

- ▶ ASSEMBLY
- ▶ BAGGING
- ▶ BRANDING
- ▶ BUFF & POLISH
- ▶ CHROME PLATING
- ▶ CUSTOM COLOR MATCHING
- ▶ DECORATIVE INLAYS
- ▶ DECORATIVE POINTERS
- ▶ DRILLING
- ▶ HOT STAMPING
- ▶ KITTING
- ▶ LAPPING
- ▶ LASER ENGRAVING
- ▶ MACHINING
- ▶ PACKAGING
- ▶ PAD PRINTING
- ▶ PAINT COATINGS
- ▶ PAINT FILL
- ▶ SAND BLASTING
- ▶ TAPPING
- ▶ TURNING
- ▶ ULTRASONIC WELDING
- ▶ VACUUM METALIZING

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THERMOSET

Davies Molding excels in Thermoset molding, utilizing 90 years of expertise to produce durable and heat-resistant components with precision and innovation.

Thermoset molding is a specialized molding process which creates plastic parts and components that are high-strength, durable, and heat-resistant. Unlike thermoplastics, which can be melted and reformed, thermoset plastics undergo a chemical change during curing, becoming solid and irreversible.

BENEFITS

- ▶ Outstanding dimensional stability, heat and chemical resistance
- ▶ High mechanical and dielectric strength
- ▶ Design flexibility in molding from thin to thick sections

MATERIALS

Nylons
ABS
Polypropylene
Acetals
Polycarbonates
Polytherimide
Ultem
Peek/Torlon

THE THERMOSET MOLDING PROCESS



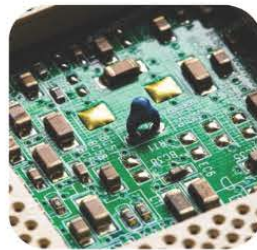
APPLICATIONS



Automotive



Aerospace



Electrical & Electronics



Appliance Manufacturing



Industrial Equipment

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THERMOPLASTIC

Davies Molding, an expert in thermoplastic molding for over 90 years. Our expertise in crafting custom solutions ensures the production of innovative and durable thermoplastic components tailored to meet unique specifications.

Thermoplastic molding is a process where thermoplastic materials are heated, molded, and cooled, retaining the ability to be remolded. This method offers easy and quick production cycles, along with the ability to create intricate designs. The versatility of thermoplastics in material selection and their recyclability make them a popular choice.

BENEFITS

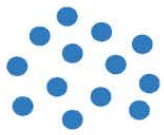
- ▶ Ability to design with more complicated part geometry
- ▶ Excellent impact resistance
- ▶ Capability to design thin walls
- ▶ Can be recycled and reused

MATERIALS

Nylons
ABS
Polypropylene
Acetals
Polycarbonates
Polyetherimide
Ultem
Peek/Torlon

THE THERMOPLASTIC MOLDING PROCESS

1



Material Selection

2



Preheating

3



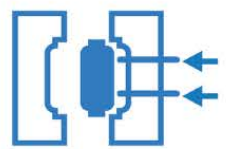
Molding

4



Curing

5



Ejection

APPLICATIONS



Automotive



Medical Devices



Consumer Goods



Appliances



Electronics



Aerospace Components



Sporting Goods



Industrial Components



Construction Materials

OUR MOLDED HISTORY

IN 1933, THE HARRY DAVIES MOLDING COMPANY began with only seven molding presses and three punch presses, located in downtown Chicago. The small, single-room company was started during a time when the economy was depressed, and work was scarce. Yet with hard work and determination, Davies Molding soon established strong roots as a quality plastic molder. During the 1940's, we became a supplier of phenolic plastic components for the World War II war effort.



In 1987, Davies Molding joined the Heico collection of companies, a billion dollar multinational organization. In the fall of 1991, Davies Molding moved to a suburb of Chicago, Carol Stream, Illinois where it is located today in a 99,000 square foot facility. The facility houses forty-five (45) thermoset compression molding machines, eight (8) thermoset injection molding machines and thirty-two (32) thermoplastic injection molding machines, all ranging in tonnage from 40 to 500 tons. Additionally, in 2022, Davies Molding expanded operations by adding an additional 15 injection molding presses with both thermoset and thermoplastic capabilities. This increased capacity not only enables the expansion of our injection molding services, but also facilitates the support of out international growth initiatives.

CUSTOM MOLDING EXPERTISE

As a premier composite and plastic molding company we offer the choice of size, shape, and material. Each part is crafted with strict control measures to ensure quality, reliability and durability which has made us the go-to custom molder for a wide variety of industries including power, infrastructure, automotive, electronics, aerospace, and medical. We have honed our molding process over the last 90 years allowing cost savings without compromising on quality, ensuring projects are completed within budget.



STANDARD MOLDED PARTS

Along with custom molding, Davies stands as your premier source for top-notch plastic knobs, handles, cases, and tailored plastic components. Offering a diverse selection, our standard parts span over 300 models, providing an extensive choice of more than 9,000 variations. Crafted with excellence, our plastic parts undergo high-quality injection and compression molding processes, incorporating cutting-edge technology to meet stringent quality standards. Utilizing industry-leading materials ensures the durability, longevity, and optimal performance of our parts, even in the most challenging conditions.

KNOBS



HANDLES



ELECTRONIC ENCLOSURES



HEX-HYBRID STANDOFFS

