

air-core

Air-Core® is Blow Molding — Made Better

With Air-Core, designs that were once impossible to achieve using conventional blow molding are now viable. Mercury Plastics engineers combined our extrusion expertise with our knowledge of forming to develop our unique, patented Air-Core process.



Air-Core allows us to do everything from adding a blow molded detail in the middle of a tube to making 3D shapes with multiple angles that are not possible with traditional blow molding and with much less capital expenditure than required by suction blow molding. Air-Core also makes it possible to incorporate components that are made of other materials, such as metal brackets, studs and nuts.

While blow molded parts contain pinch-off areas that cover the entire perimeter, Air-Core produces parts with a very small pinch-off area at the ends of the tube. They are, as a result, much stronger than parts produced with traditional blow molding processes and because there is no flash to be trimmed, the mold parting line is of injection molding quality.

With Air-Core, you get multi-layer capabilities, low prototype costs, reduced tooling lead-time and costs for future tooling modifications are greatly reduced.

Capabilities:

- Multi-layer capabilities
- Low prototype and production tooling cost
- Shorter lead times
- Textured surface possible

Specialized Production and Forming Capabilities

Air-Core produced parts can be cross-linked utilizing our electron beam to improve the physical properties of the material. We can also injection over-mold onto Air-Core produced parts to add fine details. In addition, Air-Core makes finely textured surfaces possible. You can even incorporate a corrugated section into a part to provide flexibility.

Many different materials can be used in conjunction with the Air-Core process, including PVC, nylon, ABS, PC/ABS, EVA, polypropylene, cross-linked polyethylene (PEX), TPE and more.

Mercury Plastics focuses on innovation and quality coupled with investments in cutting-edge technology and equipment, allowing us to engineer quality into every process and every part.

An Array of Products and Services

With an earned reputation as an innovator and leader in the plastics industry, Mercury Plastics has grown to be one of the largest custom extrusion providers in North America. To learn more, please call us at 440-632-5281 or visit us on the web at www.mercuryplastics.com.

