

injection overmolding

Better Connections at a Lower Cost

Mercury Plastics unique injection overmolding allows us to mold a part directly onto an extruded or Air-Core® produced part. This results in a part with improved connections, but without the need for conventional connective techniques, which in turn reduces assembly operations, lowers cost and minimizes SKUs.



Injection overmolded parts are generally less expensive and perform better than assemblies that are crimped, heat staked, glued or clamped together. This process eliminates the need for separate molded parts such as end caps, quick connects and fittings. Tubes and profiles can be joined and remain leak-free, without clamps, adhesives or heat-sealing.

Features and Benefits:

- Eliminates clamps, adhesives and heat-sealing
- Improved structural strength and integrity
- Enhanced performance and product life
- Appropriate for all thermoplastics

Functionality Enhancements Engineered Into Your Part

Many unique product configurations and enhancements are possible through injection overmolding. For example, it is possible to mold a flexible seal on the inside of a rigid tube, or add a flexible attachment or seal onto an extrusion. You can even mold the ends in different colors – ideal for cold and hot water applications.

Other applications for this technology include the molding of tight tolerance threads onto the end of piping, molded T connectors in the middle of tubing or even the addition of mounting brackets and caps onto extrusions. Plus, both rigid and flexible connections are possible.

Appropriate for all thermoplastics, including TPE, polypropylene, polyethylene, metalocene, nylons, PEX and flexible or rigid PVC, injection overmolding delivers improved structural strength and integrity, enhanced performance, longer product life and eliminates leak points.

An Array of Products and Services

Injection overmolding is just one of many capabilities that offer you products that deliver the best possible performance for the lowest total cost. Whether your best solution includes extrusion, Air-Core, cross-linking, fabrication or an assembly, Mercury Plastics engineers will help you take advantage of all of our capabilities to design the lowest total cost product. To learn more, please call us at 440-632-5281 or visit us on the web at www.mercuryplastics.com.

