

What is In-Mold Decoration?

In-Mold or Insert-Mold Decoration (IMD) or Film Insert Molding (FIM) refers to the insertion of a graphic overlay into an injection mold that combines the advantages of functional and unique graphics with a plastic molded component or assembly. With the versatility to print intricate and stunning graphics, your product can stand out from the competition with unique product differentiation using enhanced three dimensional product design.

IMD Cost Saving Factors

- Integrated components which save costs and improve yields
- Able to decorate prior to molding cycle
- Elimination of overlay label application costs
- Elimination or reduction of post-mold processes
- Waste and spoilage costs minimized

IMD Advantages

- Ability to design from a variety of surface technologies
 - Surface textures
 - Hard coated
 - Abrasion/Scratch resistant
- Integrate multiple enhancements and apply functionality into a single component
 - Backlit technology
 - Keypads
 - EMI/RFI shielding
 - Lenses
 - Encapsulate circuitry
- Protected or buried graphics
- Provide mass customization through assorted images, yet using a single molding tool
- Easier to recycle - less contamination from component bonding adhesives
- Ability to print a variety of STUNNING graphic images - Also "Wrapped" graphics



IMD -10.04



*Inspiration
 Innovation
 Imagination*



Production Steps

- 1 Print Graphic Overlay - typically .010" clear polycarbonate
- 2 Thermoform with heat/pressure to shape of mold, then cut into individual pieces.
- 3 Insert into injection molding process



Why Tapecon?

- Over 80 years of printing technology
- Nearly 20 years of printing conductive circuitry
- Developed a proven ink technology for thermoforming and distortion graphics
- Knowledgeable and experienced R&D facility
- Established partnership with post-print processes
- Capable of managing high or low volume projects
- Clean Room Printing

TAPECON[®] INC.
 Superior Quality Labels, Decals and Membrane Switches

*inspiration
 innovation
 imagination*