



Hy-tech®

FORMING SYSTEMS (USA), INC.

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Polydome® Advantages

REDUCED ASSEMBLY TIME SAVES PRODUCTION COSTS

Polydomes® are formed into the single polyester sheet at your specified coordinates. This reduces labor intensive, individual physical placement of tactile devices at each key location point.

ALLOWS MORE SWITCH DESIGN VERSATILITY

Polydomes® can be formed into the actual upper printed circuit layer of the membrane switch itself. This design reduces membrane switch costs by eliminating an entire layer.
OR---Polydomes® can be used as a separate tactile layer above the actual membrane circuitry layer. This design increases the total cycle life of the membrane switch.

MAINTAINS POLYESTER DIELECTRIC PROPERTIES

One of the reasons Polyester is used in the making of membrane switches is because of its dielectric properties. Polydomes® are an integral part of the Polyester substrate sheet and therefore exhibit the same dielectric properties. ESD shielding is accomplished with less expense as fewer layers are required. Thick film emulsion dielectrics or “resists” available now may be printed directly to the top or bottom surfaces of the switch construction layers. Design methods like this could totally eliminate the separate dielectric spacer layers usually required.

NOT DESTRUCTIVE TO THE SUBSTRATE

Because Polydomes® are an integral part of the polyester layer itself; there are no sharp or metal edges. Metallic edge wear can destroy switch continuity integrity or create premature circuit failure by electrical shorts.

WIDER SELECTION OF TRAVEL RANGE

Polydomes® can be formed in wide range of travel distances allowing the customer to select and/or customize the amount of travel desired for any particular design dimensions.

WIDER SELECTION OF ACTUATION FORCES

Polydomes® can be formed with various diameters, heights and in a range of polyester gauges which all effect forces. You can now choose from a set of standardized Polydomes forces or we can help you select a custom tactile shape from one of hundreds we have developed.

Polydomes® is a registered trade mark of Hytech Forming Systems.