

KYDEX® Injection Molding materials are a PVC/PMMA alloy and share the same physical properties as KYDEX® Thermoplastic sheet. When parts for aviation interiors are from different sources, realizing visual consistency among materials can be extremely difficult.

Because KYDEX® IM materials are specifically engineered to match KYDEX® thermoformed parts, they contribute to the overall seamless aesthetic and are as durable, chemical- and stain- resistant. They are easy to disinfect and are ideal for high traffic areas such as aviation cabins.



KYDEX® T Thermoplastic sheet and KYDEX® T-IM injection molding resins are engineered with the same properties.

KYDEX® T

THERMOFORMING

- Meets FAR 25.853 (a)
- Chemical resistant
- Excellent formability
- Integral colour
- Durable

KYDEX® T-IM

INJECTION MOLDING

- Meets FAR 25.853 (a)
- Chemical resistant
- Easy to process
- Integral colour
- Durable

KYDEX® 6565HI

THERMOFORMING

- Meets FAR 25.853 (a) (d)
- Chemical resistant
- Excellent formability
- Integral colour
- Durable

KYDEX® 6565IM

INJECTION MOLDING

- Meets FAR 25.853 (a) (d)
- Chemical resistant
- Easy to process
- Integral colour
- Durable

Cleanability & Chemical Resistance

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KYDEX® Thermoplastics can be cleaned using all CDC recognized aviation-grade disinfectants including quaternary ammonium compounds (QAC) such as ammonia or Formula 409®.

Testing results confirmed that KYDEX® Thermoplastics:

- are not adversely affected by hospital-grade CDC recognized disinfectants
- perform without loss of surface finish, colour fastness, or degradation of mechanical and physical properties

These chemical reagents can have an adverse effect on competitor surfaces, causing discoloration, brittleness, staining, and product failure. Using the right materials and understanding their compatibility with disinfectants is vital to ensuring a long, functional life.

appLab™

To have a technical conversation or for more information about injection molding applications contact appLab™ at 800.682.8758 or email appLab@kydex.com



THERMOFORMING

INJECTION MOLDING



BEST FOR

PART SIZE

Creating large parts

RUN SIZE

Small to medium part runs

AESTHETICS

Parts with integral colour do not require painting

PART SIZE

Creating small parts

RUN SIZE

Large runs of small parts

AESTHETICS

Parts with varying details

BENEFITS OF USING BOTH TOGETHER

Visual consistency among parts

Easy to disinfect

Unified chemical compatibility

Cost savings

Material bondability

PROCESS

3D Aluminum Form Created



TOOLING

Double-sided 3D mold created from steel or aluminum

KYDEX® Thermoplastic sheet available with integral colour in a variety of formulations and textures



MATERIALS

KYDEX® Injection Molding resin available with integral colour in a variety of formulations

Thermoplastic sheet is heated then molded to the tool using vacuum or pressure forming



PRODUCTION

Resin is heated and injected into a mold

Finished parts are trimmed



FINISHING

Finished parts are removed from the mold

CONNECT WITH US



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