# SEKISUI KYDEX

# INJECTION MOLDING FOR AVIATION INTERIORS

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

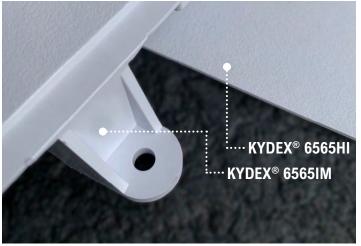
- Meets FAR 25.853 (a) (d)
- Chemical resistant
- Excellent formability
- Integral colour
- Durable

# 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



Double-sided 3D mold created from steel or aluminum

KYDEX® Injection Molding resin available with integral colour in a

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

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

Finished parts are trimmed



Resin is heated and injected into a mold

variety of formulations

Finished parts are removed from the mold

# CONNECT WITH US





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