

KYDEX® Injection Molding materials are a PVC/PMMA alloy and share the same physical properties as KYDEX® Thermoplastic sheet. When parts for medical device housings 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 healthcare furniture and medical devices.



KYDEX® T-IM injection molding resins are available with integral colour, and engineered with the same properties as KYDEX® T Thermoplastic sheet.

KYDEX® T THERMOFORMING

- Meets UL Std 94 V-0
- Chemical resistant
- Excellent formability
- Integral colour
- Durable

[TECH DATA SHEET](#)

KYDEX® T IM INJECTION MOLDING

- Meets UL Std 94 V-0
- Chemical resistant
- Easy to process
- Integral colour
- Durable

[TECH DATA SHEET](#)

Cleanability & Chemical Resistance

[CLICK HERE FOR TECH BULLETIN](#)

Aggressive cleaning agents and disinfectants are critical in eliminating surface bacteria and fungi to reduce the spread of disease.

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

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

Harmonize the most effective processes

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

LEARN MORE ABOUT INJECTION MOLDING

CONNECT WITH US



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