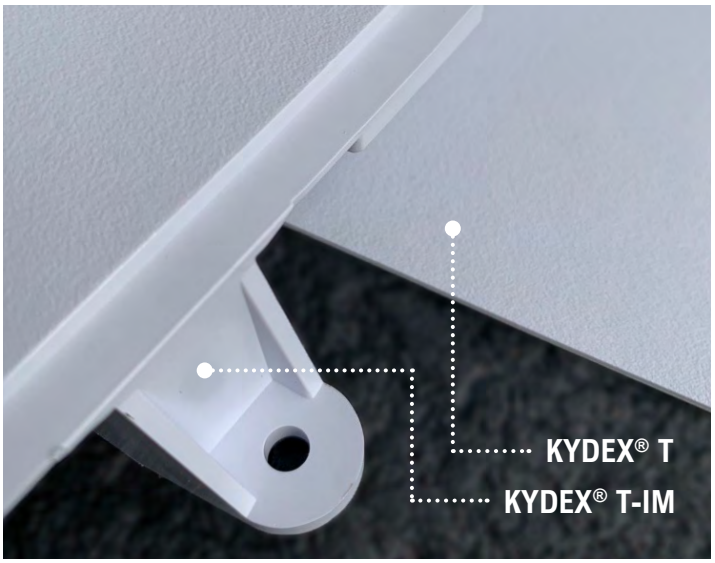
SEKISUI | KYDEX

INJECTION MOLDING

KYDEX® Injection Molding materials are a specialty formulated thermoplastic alloy and share the same physical properties as KYDEX® Thermoplastic sheet. When parts for medical device housings are from different sources, achieving visual consistency among materials can be 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

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 the aggressive disinfectants used in hospitals including those recognized by the CDC's List N for SARS-CoV-2
- 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

BEST FOR

PART SIZE
Creating large parts

RUN SIZE
Small to medium part runs

AESTHETICS
Parts with integral colour do not require painting

INJECTION MOLDING

BEST FOR

PART SIZE
Small parts with tight tolerances

RUN SIZE
Large runs

AESTHETICS
Parts with varying details and do not require painting

BENEFITS OF USING BOTH

- Visual consistency among parts
- Easy to disinfect
- Unified chemical compatibility
- Cost savings
- Utilize the most effective processes on the same device

PROCESS

THERMOFORMING		INJECTION MOLDING
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

INJECTION MOLDING TECH BRIEF

CONNECT WITH US

SEKISUI KYDEX
CUSTOMER COLLABORATION
kydex.com
info@kydex.com
1.800.325.3133

appLab™
TECH SUPPORT
kydex.com/app-lab
appLab@kydex.com
1.800.682.8758

Mark Denning
MEDICAL MARKET BUSINESS MANAGER
kydex.com/markets/medical-devices/
denningm@kydex.com
1.469.404.8048

appLab™ designLab® FSTLab™

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