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.

Cleanability & Chemical Resistance

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.

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

**Process**

**THERMOFORMING**
- 3D Aluminum Form Created

**INJECTION MOLDING**
- Double-sided 3D mold created from steel or aluminum

**Tooling**
- KYDEX® Thermoplastic sheet available with integral color in a variety of formulations and textures

**Materials**
- KYDEX® Injection Molding resin available with integral color in a variety of formulations

**Production**
- Thermoplastic sheet is heated then molded to the tool using vacuum or pressure forming
- Resin is heated and injected into a mold

**Finishing**
- Finished parts are trimmed
- Finished parts are removed from the mold

**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

**Best for**

**Part Size**
- Creating large parts
- Small to medium part runs

**Run Size**
- Small parts with tight tolerances
- Large runs

**Aesthetics**
- Parts with integral color do not require painting
- Parts with varying details and do not require painting

**Connect with Us**

- SEKISUI KYDEX
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