

Structural Foam To Gas Assist Injection Molding Conversion: Medical Trays

The Challenge

The Client was seeking to produce a strong, appealing part with a seamless design and little to no finishing required. Cost saving was important, but not at the expense of high quality design. Critical requirements were:

- Seamless communication with design consultants
- More reliable provision of production parts
- Cost reduction of structural foam parts

The Solution

Sajar Plastics was able to work directly with the design team to employ the best aspects of gas assist technology, creating desired thickness, strength and cost containment, all within a single part.

- Reduction of part thickness and weight
- Addition of thick molded-in ribs and gas channels to impart stiffness
- Replacement of expensive paint texturing with molded in texturing
- Elimination of part fabrication and cosmetic repair of structural foam gating area
- Elimination of sanding, priming, and texture painting
- Consistency of part quality and on time delivery

Why Gas Assist?

As a leader in Gas Assist Injection Molding for large parts, Sajar Plastics provided:

- Design freedom; Excellent cost reduction versus structural foam
- Severe reduction of post molding fabrication and finishing operations, allowing higher production rates and more consistent supply.
- Lower weight, higher stiffness parts
- Material reduction
- Highly detailed textures molded in; consistent and excellent surface appearance



Why Sajar Plastics?

- Large plastic part design and production
- Complex designs and aesthetically pleasing surfaces
- Consolidation of many small parts into fewer, larger parts
- Integration of molding, finishing, and assembly capability
- Project management of multi-component jobs