HEAVY GAUGE VALUE ADD - GOLD
Productive Plastics
Mt. Laurel, New Jersey
MRI Assembly

Overview:
The parts are covers for a medical scanning device application.

Features and Benefits:
Utilizing Self Moulding for tooling all 8 parts where pressure formed utilizing a Cast and machined mold. In order to achieve the customer’s distribution of materials requirement all parts utilized pushers to pre-stretch materials.

Using Sekisui’s materials parts where produced in Kydex T. The material allowed for the wall thicknesses required and consistency over multiple runs and hundreds of parts both in production and field replacements.

The 10 parts are using undercuts and formed in mating edges for better line to line fit up. Cast and then CNC cut tools allowed for the precision required to have the assembly fit up after design. The assembly allows for the parts to fit a separate metal frame that comes together at a staging location. This custom hardware reduced the amount of tools required to install and service, and reduced the total time required for install and service (sample does not show hardware due to customer request).

The covers are painted using a PPG High Gloss Paint system. This required a controlled environment that eliminated dust and the paint equipment had to be specially configured to eliminate debris. Regular maintenance processes keep the line able to reproduce an 85 degree plus gloss finish. The center bore represent a finished paint process that eliminates all surface imperfections related to paint and increased the gloss to 98 degrees.