



Client

GE Plastics

Background

GE Plastics, a division of the Fortune 500 General Electric (GE) group, is a world leader in Plastic Material manufacturing. The assignment was to perform a plastic flow study and determine the feasibility of molding a TV rear cabinet with Noryl (a highly viscous plastic material).

Mission

Plastic Flow Study of TV Rear Cabinet and feasibility study.

Scope of Work

Perform a plastic flow study and determine the feasibility of molding a TV rear cabinet with Noryl (a highly viscous plastic material).

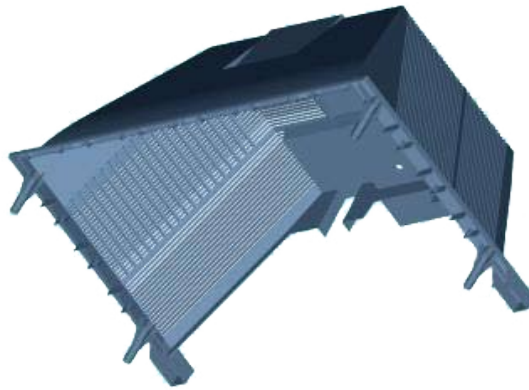
Adroitec Solution

This involved creation of 3D model of the cabinet and performing flow and design iterations with Noryl as the plastic material.

The final result was achieved by providing eight gates with hot runner manifold.

Verification of these results was done at the office of GE Plastics, where the entire model was converted to midplane mesh with 20,000 triangular shell elements and subjected to analysis.

- Receive 2D drawings
- Study drawing in detail, clarify and collect additional information wherever required
- Create 3D Features on Pro-Engineer using surfaces and solids
- Check dimensions as per drawing
- Upload Completed model to client
- Follow-up for client feedback



Business Impact/ Benefits to client

GE Plastics have accepted the study, and the data has been sent for manufacturing at their Japan plant.