Opptum Engineering Solution Pvt. Ltd.

Objective: **Suggestion for Design Modification**

Injection Molding Simulation Was Performed To Evaluate Possible Solutions

Analysis Performed:

- ✓ Mold Filling Analysis
- ✓ Shrink Analysis
- ✓ Warpage Analysis

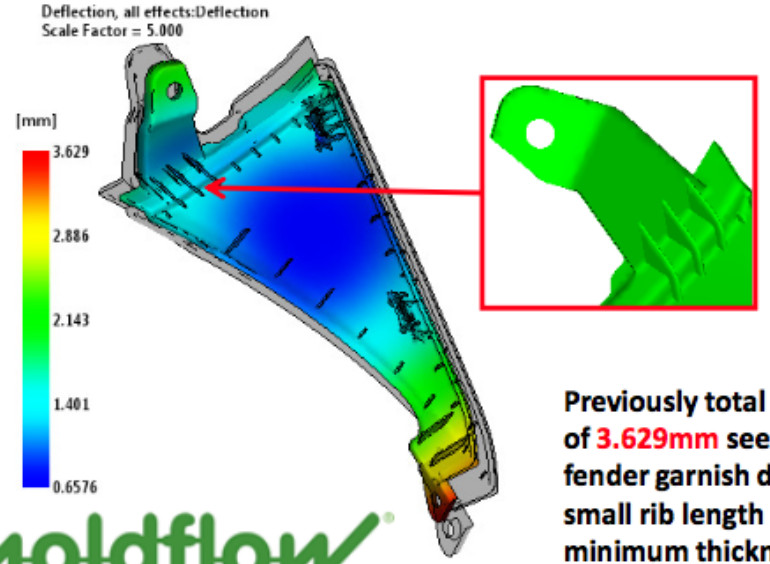
Want To reduce the Warpage variation for the part.

Pre Processing:

Mesh Type: 2D mesh

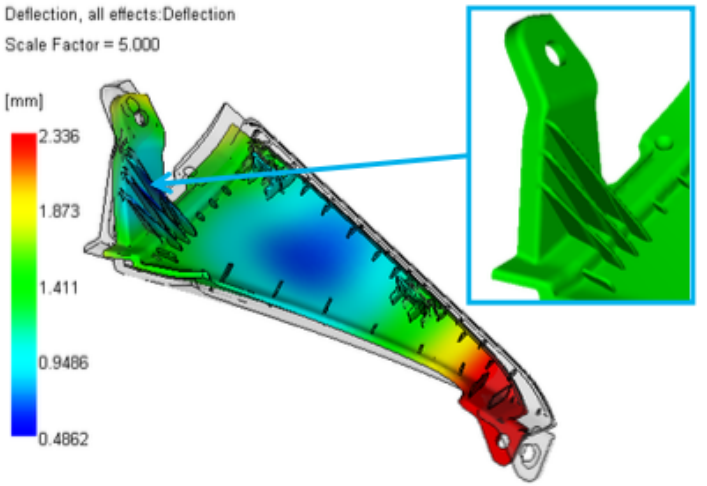
Material : **Noryl** (PC + ABS).

Previous Warpage Plot.



Previously total Warpage of 3.629mm seen for fender garnish due to small rib length and minimum thickness.

Modified Part Warpage Plot.



We suggested that thickness and the total length of the ribs must be increased in order to minimize warpage and get better results.

And finally total warpage seen is 2.336mm in all directions.

Using **Autodesk Moldflow Flex 2016** and our expertise, we have reduced the mold sampling costs and eliminated the mold trial and error phase from the molding process