## **Opptum Engineering Solution Pvt. Ltd.**



## **Moldflow Simulation For Product Optimization**

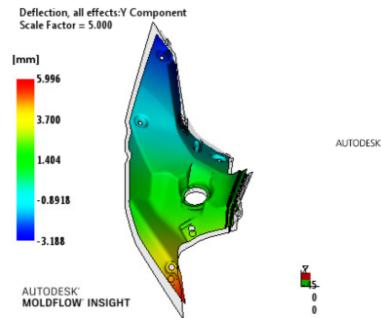
## Objective:

Injection Molding Simulation Was Performed To Evaluate Possible Solutions.

**Analysis Performed:** 

- ✓ Mold Filling Analysis
- ✓ Pack Analysis
- ✓ Warpage Analysis

Want To Solve Warpage Issue, and Any Potential Filling Issues

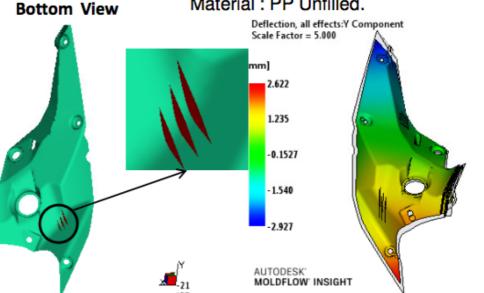


Deflection, all effect: Y Component.



Pre Processing:

Mesh Type: Mid Plane Material: PP Unfilled.



## **CAD Modification**

Final Deflection, all effect: Y Component

Moldflow Simulation of Automotive Tank Spolier Showed the warpage issue in the component as Tank Spolier is assembled part.

The initial iteration shows the maximum warpage 5.996mm in Y axis. Our expertise have suggested a CAD Modification addition of Ribs with a proper draft angle.

Using Autodesk Moldflow Flex 2016, we have reduced the warpage upto 2.62mm by adding the Ribs and Changing the Packing Profile.