

Moldflow Simulation For Clamp Force Optimization

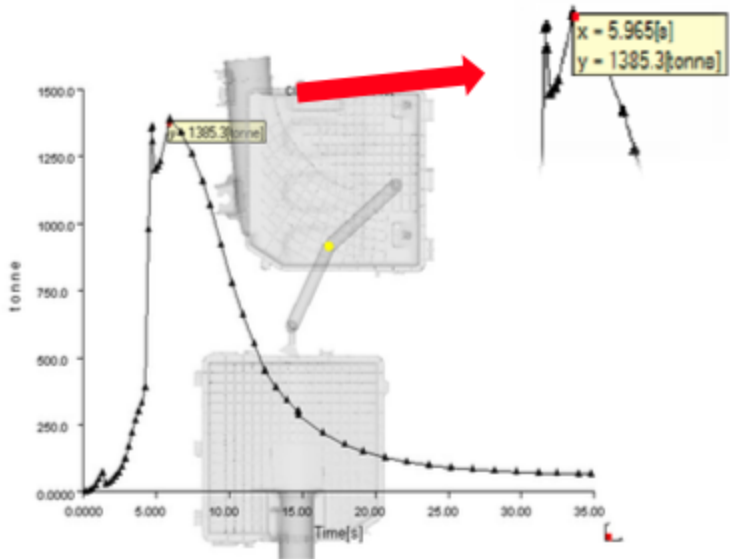
Pre Processing:
Mesh Type: Dual Domain

Objective:

To carry a Clamp Force Calculations on the Part Air Cleaner Inlet.

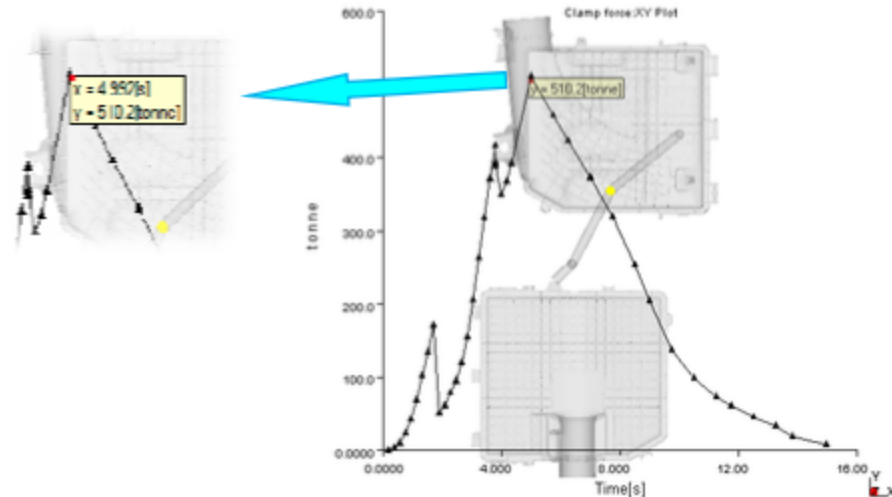
Initial Iteration:

The Clamp Force Seen was 1385.3Tonnes which was more For the Part. This was due to Both the parts filling at Different Intervals.



Final Iteration:

Providing sequential Timings in order to maintain Balanced Fill Shows that The required Clamp Force is Much Less which is Acceptable.



Molding Trials and Moldflow Simulation of **Air Cleaner Inlet** showed High Clamping Force which was a concern. Later hence Providing Sequential Timings The Required Clamp.

Proper Gate Timings were assigned to ensure that the part fills at same Intervals.