

Moldflow Simulation For Material Optimization

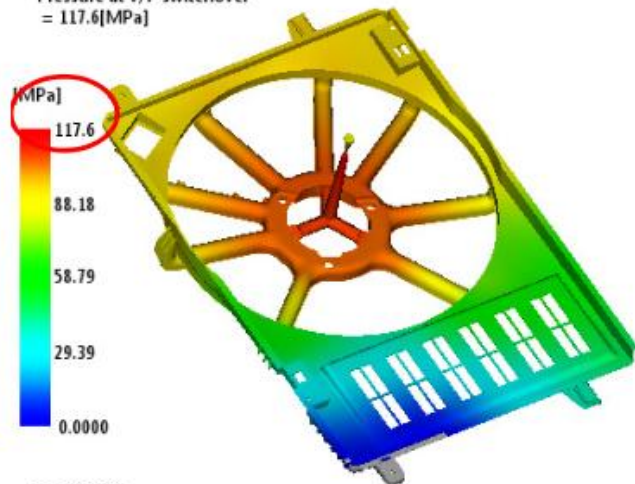
Objective:

To carry a Successful Moldflow Analysis on the Part Shroud.

Initial Iteration:

The material used is PA6 30%GF(Given). Pressure Observed is more 117.6MPa which is not accepted.

Pressure at V/P switchover
= 117.6[MPa]

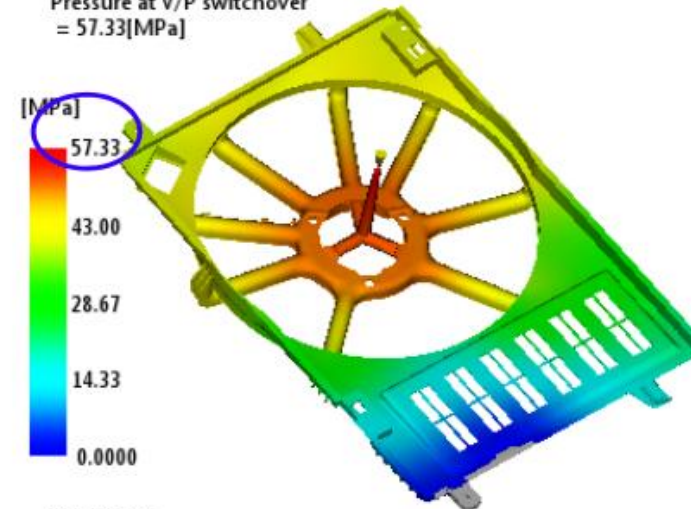


Pre Processing:
Mesh Type: Dual Domain

Final Iteration:

PP 30%GF is used as most of fan shroud are made of PP material. Results shows controlled Pressure 57.33MPa and all such other parameters which is accepted.

Pressure at V/P switchover
= 57.33[MPa]



Molding Trials and Moldflow Simulation of **SHROUD** Higher Value Results. Higher Values can not be accepted. One of which can be explained here. Let us consider Maximum Pressure With PA6 is seen to be 117.6MPa and the same with PP is seen to be 57.33MPa.

Various iterations were carried out by us for the best result.