

Color Change Cost Analysis

Description

The following cost analysis chart represents a color change from white to clear PET on a 300 Ton Husky GL300 injection molding machine. Trial 1 was performed using no purging compound. Trial 2 was performed using Ultra Purge PET-E grade.

Ultra Purge PET-E was used to clean the screw, barrel, shooting pot and hot runners in a 48 cavity mold.

Colorant - WHITE	Units	Trial 1 w/o Purging Compound	Trial 2 Ultra Purge
Lbs of PET	Lbs	600	175
Cost of PET	USD/Lb	0.50	0.50
Lbs of Ultra Purge PET-E	Lbs	0	13
Cost of Ultra Purge PET-E	USD/Lb		7.00
Total Purging Material Cost	USD	300.00	178.50
Time required for purging	Hours	1.5	0.66
Down-Time/Lost Production Hourly Cost	USD	800.00	800.00
Total Down-Time Cost	USD	1200.00	528.00
Total Cost per Purging	USD	1,500.00	706.50
Total amount in USD saved per color change using Ultra Purge	USD	793.50	

Conclusion

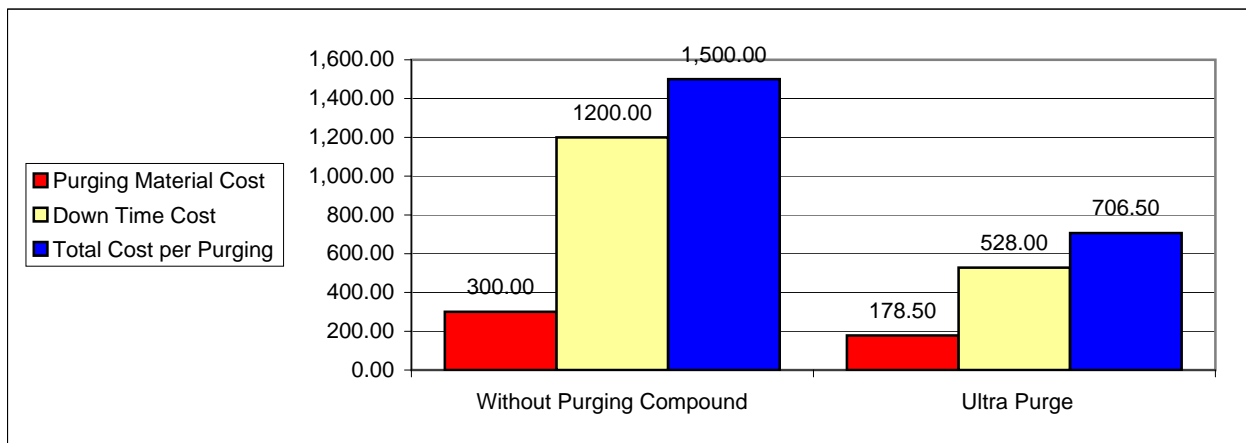
As indicated above, Ultra Purge noticeably reduces the cost of the purging material. The trial also confirms that using Ultra Purge significantly reduces the production down time. The down time and lost of production is usually the most important component in the color change break-down cost analysis

Reduction Purging Material

41%

Reduction Purging Time

56%



Trial Pictures

