

Cost Analysis Black Specks Cleaning

Description

The following cost analysis chart represents a black specks cleaning performed with a 350 Ton injection molding machine running clean PPS. Trial 1 was performed using no purging compound. Trial 2 was performed using Ultra Purge HT grade.

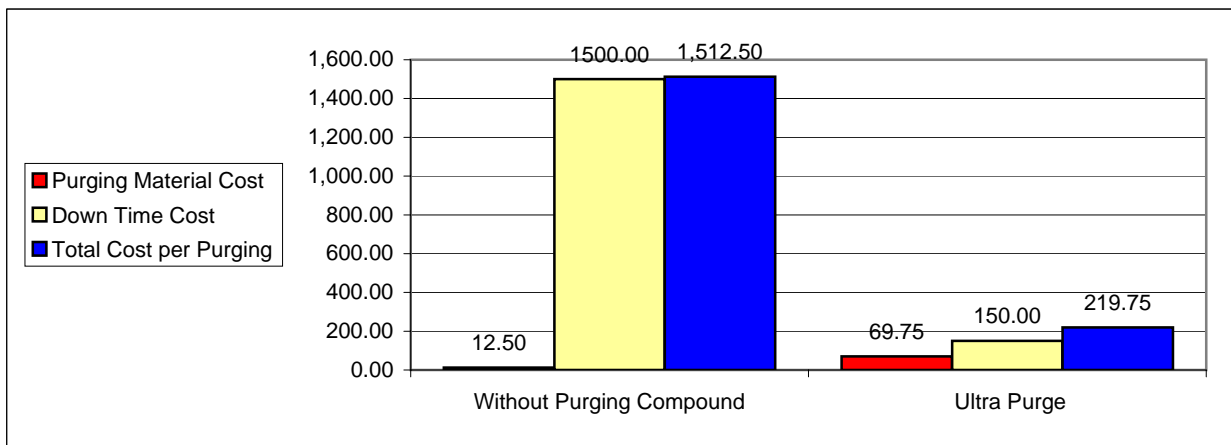
	Units	Trial 1 w/o Purging Compound	Trial 2 Ultra Purge
Lbs of PPS	Lbs	25	6
Cost of PPS	USD/lb	0.50	8.00
Lbs of Ultra Purge HT	Lbs	0	3
Cost of Ultra Purge HT	USD/lb		7.25
Total Purging Material Cost	USD/lb	12.50	69.75
Time required for purging	Hours	5	0.5
Down-Time/Lost Production Hourly Cost	USD	300.00	300.00
Total Down-Time Cost	USD	1500.00	150.00
Total Cost per Purging	USD	1,512.50	219.75
Total amount in USD saved per color change using Ultra Purge	USD	1,292.75	

Conclusion

As indicated above, the trial confirms that using Ultra Purge significantly reduces production down time. Depending on the severity of the problems sometime customers have to take apart the screws and clean it mechanically. The down time and lost of production is usually the most important component in the purging breakdown cost analysis.

Reduction Purging Time

90%



Trial Pictures

