

Color Change Cost Analysis

Description

The following cost analysis chart represents a color change from white to clear PET performed with a 50 mm twin screw extruder using Ultra Purge PET-E grade. The hourly production of this extruder is about 1320 lbs/h. Trial 1 was performed using no purging compound. Trial 2 was performed using Ultra Purge PET-E grade.

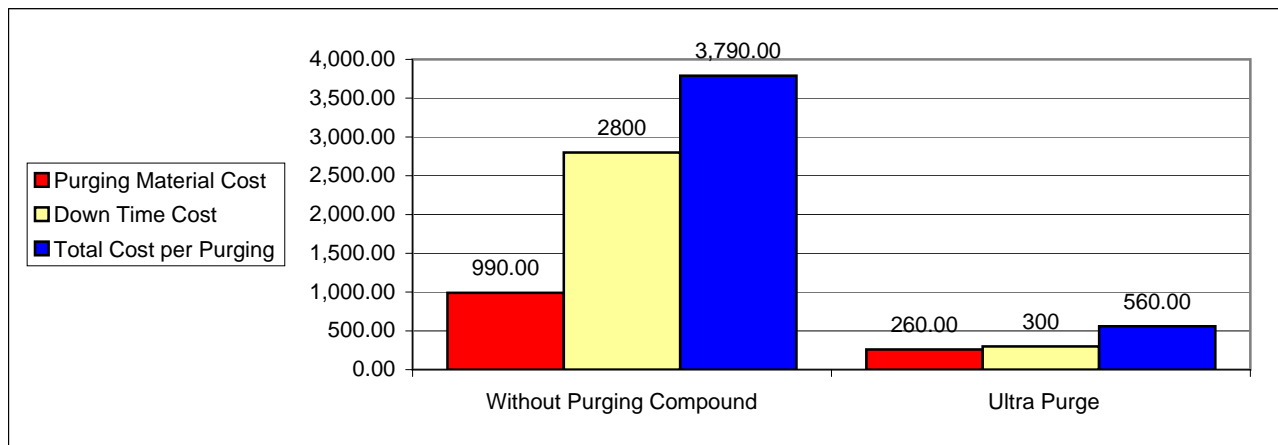
| Colorant - WHITE | Units | Trial 1 w/o Purging Compound | Trial 2 Ultra Purge |
|---|------------|------------------------------------|------------------------|
| Lbs of PET | | 1980 | 100 |
| Cost of PET | USD/Lb | 0.5 | 0.5 |
| Lbs of Ultra Purge PET-E | | 0 | 30 |
| Cost of Ultra Purge PET-E | USD/Lb | | 7.00 |
| Total Purging Material Cost | USD | 990.00 | 260.00 |
| Time required for purging | | 7 | 0.75 |
| Down-Time/Lost Production Hourly Cost | USD | 400 | 400 |
| Total Down-Time Cost | USD | 2800 | 300 |
| Total Cost per Purging | USD | 3,790.00 | 560.00 |
| Total amount in USD saved per color change using Ultra Purge | USD | 3,230.00 | |

Conclusion

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

Reduction Purging Material
Reduction Down-Time

74%
89%



Trial Picture

