

## hot runners

### HIDDEN COLOURS IN HOT RUNNERS REMOVED BY ULTRA PURGE

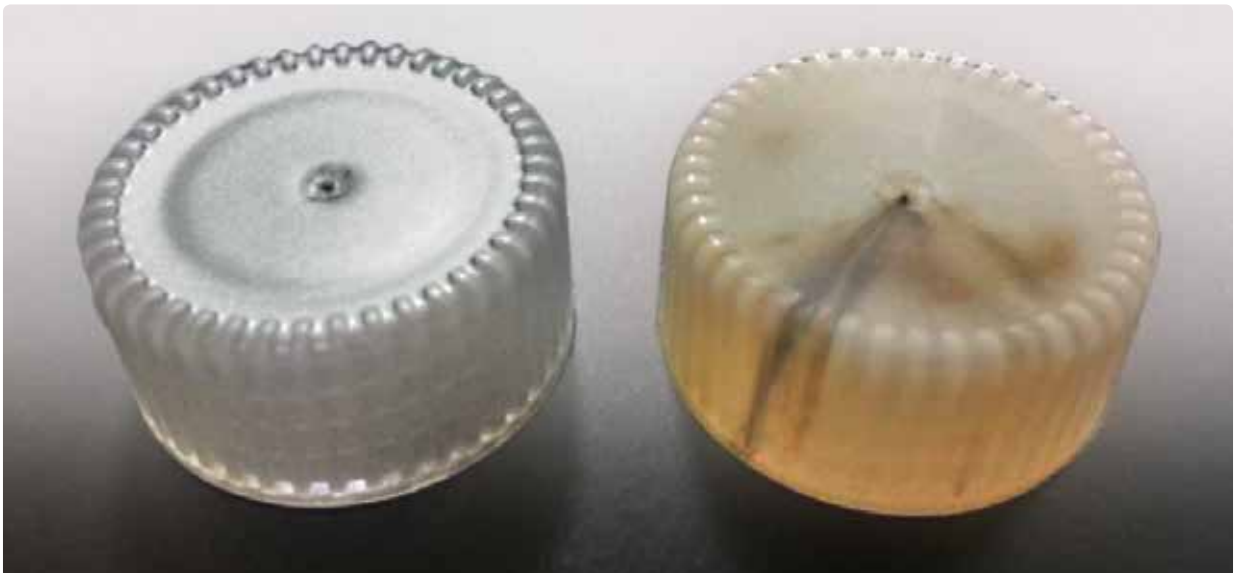
**Injection moulders many times do not realize how much colour contamination is built up in the hot runner system.**

Companies that do not use Ultra Purge will often find that they do not remove all of the previous colour when purging the hot runners. The next colour will basically gloss over the previous colour which allows the moulder to start making good parts; however, the previous colour will remain in the machine resulting in issues down the road.

An Ultra Purge Sales representative attended a trial at a large cap and closure moulder recently. Ultra Purge P-O grade was recommended to the customer for mouldability purposes. The injection moulder wanted to check on the mouldability of Ultra Purge so they picked a random machine that was making silver caps. Apparently no problems were taking place with the machine and the company was making good parts to be sold to their customer. The moulder assumed the hot runner system was clean since the parts were good.

### AS THE TRIAL PROGRESSED AND ULTRA PURGE STARTED TO BE SEEN IN THE PARTS, A BROWNISH-BLACK COLOUR STARTED TO APPEAR.

The customer was very surprised to see such heavy contamination being removed from a machine that he thought was cleaned.

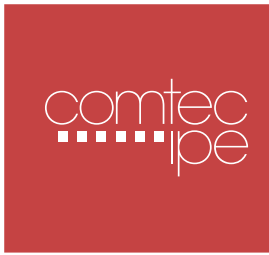


**Left** - Silver cap

**Right** - Moulded Ultra Purge part with the dark colour contamination

### THE SOLUTION

After witnessing the trial, the customer decided to start using Ultra Purge for all dark to light colour changes. They have found that no more hidden colours are remaining in the hot runners.



Don't just purge... **ULTRA PURGE!**<sup>™</sup>

## Industry advantages:

- Food & Packaging:** Approved by FDA & EU Food Requirements.
- Medical:** Ultra Purge have passed the strict migration test to comply with EU food contact regulations.
- Technical:** Specialized solution that works with a wide variety of resins and temperatures.
- Electronics:** Suitable for high temperature applications. Very effective during material changes and with carbon buildup removal.
- Housewares:** Colourants and carbon deposits are softened and easily removed from extruders, injection units and hot runners.
- Automotive:** Fast and easy solution for dark to light colour changes.

PRODUCT GUIDE								
Grades	Ultra Purge P-O	Ultra Purge PET-E	Ultra Purge BP	Ultra Purge 5150	Ultra Purge 5160	Ultra Purge PC	Ultra Purge PMMA	Ultra Purge HT+
Temp. °C	170-300	190-320	170-380	160-350	190-320	220-340	200-280	250-400
Resin Range	PP, PE, HDPE, LDPE, LLDPE, HIPS, GPPS, TPO...	PET	PP, PE, HDPE, LDPE, LLDPE, HIPS, GPPS, TPO...	ALL RESINS WITHIN ABOVE TEMPERATURE RANGE	ABS, ASA, PA, GPPS, HIPS, PC, SAN, PBT, PET...	WHEN SWITCHING FROM ANY RESIN TO PC	WHEN SWITCHING FROM ANY RESIN TO PMMA, TRANSPARENT PA, CA, CAB	PPS, PSU, PEEK, ULTEM...
Ready-to-use	✓	✓		✓	✓	✓	✓	✓
Concentrate			✓					
Hot runners	✓	✓	✓	✓	✓	✓	✓	
PET Preform		✓						
EXTRUSION								
Screw & Die	✓	✓		✓	✓	✓	✓	✓
Blow Moulding				✓				

**For technical support please consult COMTEC IPE**



**It is recommended to consult the technical data sheet of each grade.**

- Adelaide: Unit 3B, 90-94 The Parade, Norwood, SA 5067 T: 1300768826
- Melbourne: Factory 6, 103 Garden Road, Clayton, VIC 3168 T: 1300768826
- Sydney: Suite 38, 20-28 Maddox St, Alexandria, NSW 2015 T: 1300768826
- Singapore: 998 Toa Payoh North #04-23/26. S(318993) T: (65) 6259 8486
- New Zealand: Agent: Hanlon Consulting www.hanlonconsulting.co.nz T: (64) 7 827 8833