

black specks

ULTRA PURGE SOLVES POLYCARBONATE ISSUES FOR MOULDER

Processing polycarbonate (PC) often can be a difficult task for plastic processors. PC has a tendency to degrade and result in black specks (carbon) contaminating parts.

Recently a company in the Northeast USA contacted Moulds Plus International for assistance with a clear PC part for the medical industry. The moulder had been having issues scraping clear PC parts due to black specks contaminating the parts (see picture of contamination below). The moulder would pull off the screw and clean the hot runner system. Only a few days after this, carbon would show up again in the parts. Once this happened, they would battle getting rid of the contamination and eventually have to manually clean the equipment again.

PART COLLECTED AT THE TRIAL



THE SOLUTION

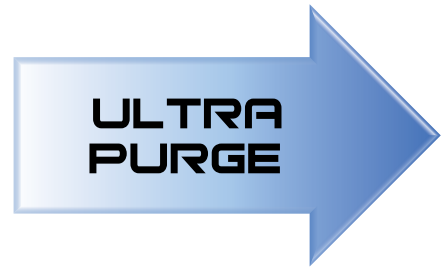
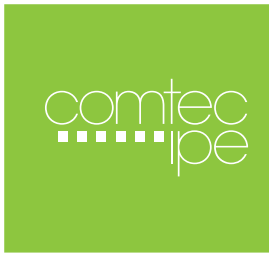
Due to the fact that the black specks were appearing so soon after a manual cleaning, the Ultra Purge account manager recommended using Ultra Purge PC grade as a preventative maintenance solution.

Ultra Purge PC is specifically designed to purge Polycarbonate jobs. Ultra Purge PC is a low residue purging compound, thus, there is no need to "purge out the purging compound" of white residue. A low residue purge compound is especially important when moulding clear parts that need to be 100% contamination free. Ultra Purge PC grade is also safe and effective at purging hot runners.

The injection moulder is now performing the recommended preventative maintenance with Ultra Purge PC and has eliminated their black speck issue. This led to the boost in company's profits by increasing the machine productivity, reducing amount of labour for sorting parts and reducing the amount of Polycarbonate scrap.

Left - Chunks of carbon being pulled off the screw.

If your company is experiencing carbon contamination please contact your local Ultra Purge representative for a free consultation on how using Ultra Purge for preventative maintenance may assist you.



Don't just purge... **ULTRA PURGE!**[™]

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.

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