



Release Innovation™

a brand of  
**FREUDENBERG**

Don't just purge...

**Ultra Purge!™**

# Don't just purge... Ultra Purge!™

## Why Ultra Purge™?

Ultra Purge™ products are ready-to-use or concentrated chemical, mechanical or hybrid chemical/mechanical purging compounds designed to increase productivity during color and material changes, start-ups and carbon removal procedures.

Ultra Purge™ products are recommended by major machine and colorant producers as the most cost-effective and efficient solution for cleaning plastic processing machines. Contaminants are safely ejected without harming the screw, barrel or hot runner. Expanding agents in most Ultra Purge™ products allow the material to clean even the hardest-to-reach areas inside your machines. Ultra Purge™ is effective for color changes, material changes and the removal of black specks. Ultra Purge™ works at the processing temperature of the production material.

### INCREASE EFFICIENCY AND LOWER COSTS

Ultra Purge™ is more efficient when compared to other purging solutions. Scrap, downtime, color changes, material changes and shut downs will be significantly improved.

### SAFE FOR THE EQUIPMENT

Ultra Purge™ is recommended by major international hot runner and machinery manufacturers. Ultra Purge™ is safe for screw, barrel, hot tip and valve gated hot runner systems.

### SAFE FOR THE OPERATOR

Ultra Purge™ produces no-to-low odor and no harmful fumes. It is safe for the operator and the production facility environment.

### ENVIRONMENTALLY RESPONSIBLE

Less Ultra Purge™ is required in comparison to conventional mechanical purging compounds. Certain Ultra Purge™ grades may be recycled, sold back to scrap dealers or mixed in with regrind and molded into parts.

## Why use this much conventional mechanical purging compound...

Ultra Purge™ customers typically use 2 to 3 times less material compared to conventional mechanical purging compounds.



...when you can use much less Ultra Purge™?



The next generation purging technology

This innovative cleaning technology helps plastic processors be more competitive and is included in our range of Ultra Purge™ 5150 and Ultra Purge™ 5160 purging compounds.

# Applications

The purging solution for all plastic applications.

Injection molding & hot runners

PET preform production

Extrusion blow molding

Blown and sheet film

Masterbatch compounding



## Industries

### AUTOMOTIVE



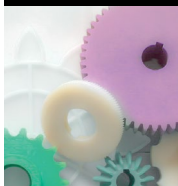
Maximizing profits in the competitive automotive industry is imperative to success. Ultra Purge™ provides a fast and easy solution for dark-to-light color changes. Ultra Purge™ offers tailored grades for the automotive industry that are easy to use and work effectively in purging screws, barrels and hot runners.

### HOUSEWARES



With safe chemical technology from Ultra Purge™, colorants and carbon deposits are softened and easily removed from extruders, injection units and hot runners. Depending on the resin and application, a specific Ultra Purge™ solution will help solve your purging-related challenges.

### TECHNICAL COMPONENTS



Ultra Purge™ offers specialized solutions that work with a wide variety of resins and temperatures. Our solutions are hot runner safe and can be molded. These Ultra Purge™ grades also prevent the oxidation of polymers during shutdowns and start ups.

### FOOD AND PACKAGING



Ultra Purge™ offers customized grades for single face, multi-cavity and stack tools, as well as for tandem molds. Ultra Purge™ is 100% moldable, which allows for color changes on the fly. Most Ultra Purge™ grades are in compliance with European Plastics Regulation (EU) No. 10/2011, and according to US legislation for food contact materials (21 Code of Federal Regulation, 21 CFR), most components of Ultra Purge™ are either affirmed as GRAS (generally recognized as safe), or approved as direct food additives or permitted as indirect food additives.

### MEDICAL



Ultra Purge™ offers various purging solutions that are completely safe for use in the medical industry. Our R&D team can assist with the validation of Ultra Purge™ for use in your medical applications.

### ELECTRONIC COMPONENTS



Electronic components are often molded out of high-temperature resins. Ultra Purge™ offers high-temperature grades that are effective during material changes and carbon removal.

# ULTRA PURGE™ PRODUCT LINE

RESIN TO BE PURGED	GRADES	TEMPERATURE RANGE		READY-TO-USE CONCENTRATED	INJECTION MOLDING		PET PREFORMS	EXTRUSION					
		CELSIUS	FAHRENHEIT		SCREWS AND BARRELS	HOT RUNNER SYSTEMS		INJECTION MOLDING	SCREWS AND DIES COMPOUNDING MASTERBATCH	BLOWN FILM	SHEET EXTRUSION	BLOW MOLDING WITH ACCUMULATORS	BLOW MOLDING WITHOUT ACCUMULATORS
PPS, PSU, PPO, GRIVORY HT...	Ultra Purge™ HT	200 - 380	392 - 716	READY-TO-USE	✓			✓					
PPS, PSU, PEEK, ULTEM...	Ultra Purge™ HT+	250 - 400	482 - 752		✓			✓					
When going to PC	Ultra Purge™ PC	220 - 340	428 - 644		✓	✓		✓		✓			
When going to PMMA	Ultra Purge™ PMMA	200 - 280	392 - 536		✓	✓		✓		✓			
PP, PE	Ultra Purge™ 1001	190 - 250	374 - 482		✓	✓							
ABS, ASA, PA, GPPS, HIPS, PC, SAN, PBT, PET...	Ultra Purge™ HIGH-E	190 - 320	374 - 608		✓	✓		✓		✓			
ABS, ASA, PA, GPPS, HIPS, PC, SAN, PBT, PET...	Ultra Purge™ 5160	190 - 320	374 - 608		✓	✓		✓		✓			
PET	Ultra Purge™ PET-E	190 - 320	374 - 608		✓	✓	✓			✓			✓
PP, PE, HDPE, LDPE, LLDPE, HIPS, GPPS, TPO...	Ultra Purge™ PO	170 - 300	338 - 572		✓	✓		✓		✓			
General purpose-crystalline resin	Ultra Purge™ 5150	160 - 350	320 - 662		✓	✓		✓		✓	✓	✓	✓
TPU	Ultra Purge™ MEC2	190 - 320	374 - 608		✓			✓					
PET	Ultra Purge™ C4000	190 - 320	374 - 608		✓	✓	✓			✓			✓
PP, PE, HDPE, LDPE, LLDPE, HIPS, GPPS, TPO...	Ultra Purge™ BP	170 - 380	338 - 716	CONCENTRATED	✓	✓							
PP, PE, HDPE, LDPE, LLDPE, TPO, TPR, EVA...	Ultra Purge™ C1610	140 - 300	284 - 572						✓		✓	✓	
PP, PE, HDPE, LDPE, LLDPE, HIPS, GPPS, TPO...	Ultra Purge™ PO-C	170 - 320	338 - 608		✓	✓		✓	✓	✓			

## ABOUT US

Ultra Purge™ is part of Chem-Trend, a global leader in the development and production of high-performance purging compounds, release agents and ancillary processing chemicals for molding and forming operations. At Chem-Trend, our reputation is built on providing value adding solutions that increase productivity, reduce scrap and improve end-product quality for our customers.

CT-UP-GB-07.2018



ChemTrend.com

UltraPurge.com

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