

Dyna-Purge High Performance Purging Compounds



Excellent for color and material changes, reducing contamination, eliminating black specking and for shutdown/startup.

Dyna-Purge offers 7 different products and 3 different package sizes to accommodate every purging need.



- Unlimited Shelf Life
- Easy to use - no processing adjustments or mixing required
- Low "cost-per-purge" - only a small quantity is needed to be effective (1 or 2 times the barrel capacity - depending on machine conditions)
- Safe, non-hazardous ingredients

Find your purging solution.

Selecting the best Dyna-Purge grade is simple. Match your requirements to the chart below.

For optimal grade recommendations, consult your representative.

GRADE	INJECTION MOLDING		EXTRUSION				OTHER PROCESSES		PROCESSING TEMPERATURES			
	COLD RUNNER / CONVENTIONAL	HOT RUNNER SYSTEMS	PROFILE	SHEETS	CAST FILM	BLOWN FILM	COMPOUNDING	BLOW MOLDING	LOW (°F)	HIGH (°F)	LOW (°C)	HIGH (°C)
A	●	●	●	●	●				320	500	160	260
D2	●	●	●	●	●		●	●	350	625	177	329
E2	●	●	●	●	●		●		575	715	302	379
K	●	●	●	●	●		●		290	550	143	287
F	●	●					●		320	575	160	302
C	●	●	●	●			●	●	380	590	193	310
SF			●	●	●	●			320	575	160	302



DYNA-PURGE A - Designed for purging polypropylene (PP)

Dyna-Purge A is the first purging compound to combine the key features found in both mechanical and chemical products. This new hybrid technology is ideal for eliminating color streaks and other forms of contamination often associated with purging polypropylene out of the screw and barrel as well as the tool and die.

FEATURES & BENEFITS:

- Excellent for polypropylene color changes, preventative machine maintenance, and before manual cleaning
- Specifically designed for purging through hot runner systems and other equipment with tight clearances
- Advanced hybrid technology reaches all stagnation areas breaking down the color contamination and removing it from the machine
- Easy to use- no soaking time or temperature alterations are required
- Engineered to exit the machine with next production resin- leaving behind no residual purging compound
- Thermally stable with no noxious fumes or odor often associated with chemical purging compounds

ITEM NUMBER	DESCRIPTION
DPA55	55 LB BOX
DPA250	250 LB DRUM
DPA1000	1000 LB GAYLORD

Applications:	Injection- cold and hot runners Extrusion- profile, sheet and cast film
Temperature Range:	320° F - 500° F (160° C - 260° C)
Types of Resins:	PP
Minimum Clearance:	None

New DYNA-PURGE® D2 - The most versatile and innovative commercial purging compound in the plastics industry

DYNA-PURGE D2 is the latest technology breakthrough working to scrub, clean and remove contamination effectively, without leaving a residue. A proprietary component is formulated to flow to the boundary layers to flush out the resident resin, while another acts as a pressurizing agent allowing for the purge to reach stagnation points. In addition, an encapsulated fine targets degraded material adhering to the surface. This dynamic "triple action" innovation thoroughly cleans and removes material from the screw and barrel as well as the tool or die.

FEATURES & BENEFITS:

- Developed for color changes, resin changes, shutdown and start-up as well as preventative machine maintenance
- Excellent for purging through system components with a minimum clearance of .025 inch or .65 mm
- Low odor formulation
- Thoroughly loosens and eliminates carbonized and degraded materials
- Easy to use- no processing adjustments or mixing required
- Less sticky for easier clean-up

ITEM NUMBER	DESCRIPTION
DPD255	55 LB BOX
DPD2250	250 LB DRUM
DPD21000	1000 LB GAYLORD

Applications:	Injection- cold and hot runners Extrusion- profile, sheet, cast film, compounding & blow molding
Temperature Range:	350° F - 625° F (177° C - 329° C)
Types of Resins:	All
Minimum Clearance:	.025 inch or .65 mm

DYNA-PURGE® E2 - Designed for High-Temperature Engineering Resins

DYNA-PURGE E2 delivers the most advanced technology breakthrough in heat stability and enhanced cleaning. Its unique integrated polymer system was developed for purging high-temperature resins safely and efficiently in all areas of the machine, including tight channels.

FEATURES & BENEFITS:

- Ideal for purging high-temperature engineering resins such as PEEK, PEI, PPS, PPA, PSU, etc.
- Excellent for color changes, resin changes, preventative machine maintenance, and before manual cleaning
- Low odor with less fumes
- Non-abrasive, non-chemical integrated polymer system thoroughly cleans and displaces the previous production resin and color
- Easy to use- no mixing required

ITEM NUMBER	DESCRIPTION
DPE255	55 LB BOX
DPE2250	250 LB DRUM
DPE21000	1000 LB GAYLORD

Applications:	Injection- cold and hot runners Extrusion- profile, sheet, compounding
Temperature Range:	575° F - 715° F (302° C - 379° C)
Types of Resins:	High-temperature engineering resins
Minimum Clearance:	None

DYNA-PURGE® K - "Dual Power" cleaning for a broad range of low-temp resins

DYNA-PURGE K is a low-temperature, non-abrasive, non-chemical engineered thermoplastic purging compound, formulated to flow naturally through the machine. Two unique ingredients provide for a "dual power" cleaning experience. A non-melting but softening thermoplastic scrubs while a proprietary additive expands, removing any contamination without leaving behind a residue.

FEATURES & BENEFITS:

- Developed for color changes, resin changes, preventative machine maintenance, and before manual cleaning
- Excellent for purging through equipment with a minimum clearance of .025 inch (.65 mm) or greater
- Easy to use- no process adjustment necessary- use at the resident resin processing temperature and RPM speed
- Non-abrasive, non-melting but softening thermoplastic, which thoroughly loosens carbonized and degraded resin, allowing it to be flushed out of the system
- No mixing required- simply use "as is"

ITEM NUMBER	DESCRIPTION
DPK55	55 LB BOX
DPK250	250 LB DRUM
DPK1000	1000 LB GAYLORD

Applications:	Injection- cold and hot runners Extrusion- profile, sheet, cast film, compounding
Temperature Range:	290° F - 550° F (143° C - 287° C)
Types of Resins:	PP, PVC, TPE, TPO, TPR, TPU & other low temperature resins
Minimum Clearance:	.025 inch or .65 mm

DYNA-PURGE® F - Designed for quick color changes

DYNA-PURGE F is a non-abrasive, non-chemical engineered thermoplastic purging compound with a proprietary additive, formulated to flow naturally through the barrel and hot runner system of the injection molding machine, as well as extrusion equipment.

FEATURES & BENEFITS:

- Excellent for color changes, resin changes, preventative machine maintenance, and before manual cleaning
- Developed for purging through hot runner systems and other equipment with tight clearances
- Easy to use- no process adjustment necessary- use at the resident resin processing temperature and RPM speed
- No mixing required- simply use "as is"

ITEM NUMBER	DESCRIPTION
DPF55	55 LB BOX
DPF250	250 LB DRUM
DPF1000	1000 LB GAYLORD

Applications:	Injection- cold and hot runners Extrusion- compounding
Temperature Range:	320° F - 575° F (160° C - 302° C)
Types of Resins:	All
Minimum Clearance:	None

DYNA-PURGE® C

Designed for Clear and Transparent Resins

DYNA-PURGE C is a clear, non-abrasive, non-chemical engineered thermoplastic purging compound, formulated to purge high clarity resins such as PET, GPPS, PC, SAN and PMMA. A proprietary additive expands allowing for the purge to reach and clean all areas of the machine. The carrier matrix then flushes away the previous resin and other impurities, eliminating any “milky drag” or residue.

FEATURES & BENEFITS:

- Excellent for transition to clear/transparent resin, preventative machine maintenance, and before manual cleaning
- Excellent for purging through hot runner systems, dies, or other downstream equipment
- Easy to use- no process adjustment necessary- use at the resident resin processing temperature and RPM speed
- Non-abrasive thermoplastic, which thoroughly loosens carbonized and degraded resin, allowing it to be flushed out of the system
- No mixing required- simply use “as is”

ITEM NUMBER	DESCRIPTION
DPC55	55 LB BOX
DPC250	250 LB DRUM
DPC1000	1000 LB GAYLORD

Applications:	Injection- cold and hot runners Extrusion- profile, sheet, compounding, blowmolding
Temperature Range:	380° F - 590° F (193° C - 310° C)
Types of Resins:	PET, GPPS, PC, SAN, PMMA as well as other clear / transparent resins
Minimum Clearance:	None

DYNA-PURGE® SF

Designed for Profile, Sheet, Blown & Cast Film

DYNA-PURGE SF is a non-abrasive, non-chemical engineered thermoplastic purging compound with a proprietary additive, which allows the purge to expand and scrub the screw and barrel, die, and other downstream equipment. The material is designed for extruders and co-extruders that have limited clearances related to screenpacks, mixing or metering devices, etc., when processing profile, sheet, blown and cast film.

FEATURES & BENEFITS:

- Excellent for color changes, resin changes, preventative machine maintenance, and before manual cleaning
- Ideal for use when screen packs can't be removed from the extruder
- Easy to use- no process adjustment necessary- use at the resident resin processing temperature and RPM speed
- Non-abrasive thermoplastic, which thoroughly loosens carbonized and degraded resin, allowing it to be flushed out of the system
- No mixing required- simply use “as is”

ITEM NUMBER	DESCRIPTION
DPSF55	55 LB BOX
DPSF250	250 LB DRUM
DPSF1000	1000 LB GAYLORD

Applications:	Extrusion- profile, sheet, compounding
Temperature Range:	320° F - 575° F (160° C - 302° C)
Types of Resins:	All
Minimum Clearance:	None

Dyna-Purge® is a registered trademark of Shuman Plastics, Inc.

