



## SUGGESTED PURGING PROCEDURES for resin / color changes and shutdown / start-up

### **Process: Sheet and Cast Film extrusion**

**SAFETY FIRST:** Before performing any procedure, it is the machine operator's responsibility to be aware of their company's safety policy, to wear the appropriate personal protective equipment, and to make sure that only authorized personnel are in the area.

### **PROCEDURE:**

1. Maintain temperature and RPM settings for resident resin.
2. Disconnect or shut-off auxiliary feeding and downstream equipment and thoroughly clean material feed system, ensuring all components including blenders, hoppers, loaders, filters, magnets, hoses, and drain ports are cleaned.
3. Begin to empty barrel and, when resident resin is below the feed throat, introduce Dyna-Purge (1 to 2 times barrel capacity) into empty hopper or side port.  
Note: actual amount needed depends on machine conditions.
4. If allowable, a reduction in die gap clearance should increase back pressure, allowing for improved results.
5. Begin to purge. Short bursts of high agitation (RPMS) will loosen build-up. Subsequently slowing the speed or stopping the screw allows the purge to expand and then push out the loosened contamination. Continue to alternate this process until the purge is clean.
6. Thoroughly clean the hopper and adjust temperature settings for your next production resin.
7. Using your next production resin, flush out the remaining Dyna-Purge.
8. Thoroughly clean die surface to remove any contamination and, if applicable, install new screen pack and make die gap adjustments.
9. Reconnect auxiliary feeding and downstream equipment.
10. Start production run.

▪ **see shutdown / start-up procedure on reverse side** ▪

## **SHUTTING DOWN:**

1. Maintain temperature and RPM settings for resident resin.
2. Disconnect or shut-off auxiliary feeding and downstream equipment and thoroughly clean material feed system, ensuring all components including blenders, hoppers, loaders, filters, magnets, hoses, and drain ports are cleaned.
3. Begin to empty barrel and, when resident resin is below the feed throat, introduce Dyna-Purge (1 to 2 times barrel capacity) into empty hopper or side port.  
Note: actual amount needed depends on machine conditions.
4. Begin to purge. Short bursts of high agitation (RPMs) will loosen build-up. Subsequently slowing the speed or stopping the screw allows the purge to expand and then push out the loosened contamination. Continue to alternate this process until the purge is clean.
5. Ensure barrel is filled with Dyna-Purge to prevent the chance of oxidation. Stop screw rotation and reduce the temperature by lowering or turning off the heat zones of the machine. Caution: as the purge solidifies, take care not to rotate screw.

## **STARTING UP:**

1. Turn on and/or raise the temperature to 50°F (10°C) above the minimum operating temperature of Dyna-Purge. (Refer to Product Information Sheet for operating temperature). Note: Review start-up protocol on machinery for additional information.
2. When the desired temperature of Dyna-Purge has been reached, begin rotating the screw slowly to avoid too much torque. The purge may still be stiff, so do not rotate the screw at full RPM.
3. If the purge compound exiting the machine shows signs of contamination, introduce more Dyna-Purge until the compound flushed out is clean.
4. Thoroughly clean the hopper and adjust temperature settings for your next production resin.
5. Using your next production resin, flush out the remaining Dyna-Purge.
6. Thoroughly clean the die surface to remove any contamination and, if applicable, install new screen pack and make die gap adjustments.
7. Reconnect auxiliary feeding and downstream equipment.
8. Start production run.

Important! The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true to the best of our knowledge. NO WARRANTY OR GUARANTY, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, SUITABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling or storage. Other factors may involve other or additional safety or performance considerations. While our technical personnel can respond to questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State or local laws.