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## PURGING PROCEDURE FOR INJECTION MOLDING Barrel, Screw, Check Ring and Nozzle



Note: When purging the barrel and screw <u>for the first time with Purgex™</u>, use 2 times the injection capacity and soak for 5 minutes. When routinely purging with Purgex™, use approximately 1 to 1-1/2 times the injection capacity and soak for 3-5 minutes.

## **Preparation Before Purging**

(with about 5 minutes remaining in production run)

- 1. Turn off material flow.
- 2. Maintain process settings and continue running parts.
- 3. When last part is completed, retract carriage.
- 4. Clean hopper and/or colorant blender.
- 5. Load established amount of Purgex<sup>™</sup> into hopper/feed zone.
- 6. Clean nozzle and sprue bushing.

## **Purging The Machine**

- 1. Adjust shot size to roughly 25% of injection capacity.
- 2. In manual mode, purge barrel and screw until Purgex<sup>™</sup> is visible (see Note above for quantity).
- 3. Stop purging and soak Purgex<sup>™</sup> in the barrel for 3-5 minutes.
- 4. Continue purging until most of the Purgex™ is out of the hopper and then begin your normal changeover procedures.
- 5. Feed at least one injection capacity of the next production resin (with/without the colorant on) to rinse out any residual Purgex $^{\text{TM}}$ .
- 6. If necessary, rinse with additional production resin.
- **Note**: The setting changes above in Step 1 are recommended to assist Purgex<sup>™</sup> in working more effectively and efficiently.

## **Comments & Recommendations**

- → Highly contaminated machines or the use of liquid colorants may require additional purging with Purgex<sup>™</sup> and/or an extra soak time (eliminate the soak time(s) on resins processed over 600°F (316°C)).
- Purgex™ is stable and is safe to leave in the barrel for long term shutdowns.
- Purgex<sup>™</sup> can be used effectively many ways. These procedures are offered as a reference and have been shown to be most effective in plant trials and our controlled lab experiments.
- Purgex<sup>™</sup> should be thoroughly tested on any process following these basic guidelines as a baseline before using any alternative method.

