

Physical Description:

Blend, polyethylene, 3% glass, and an FDA-approved active component

Non-toxic, non-abrasive, and safe

Ready to use and easy to remove

Temperature Range:

Operating temperature range of 300°F to 550°F (149°C to 288°C)

Applications:

PURGEX 457 Plus is used for color and/or material changes and the removal of residual contamination in thermoplastic injection molding, extrusion, or blow molding equipment.

PURGEX 457 Plus will efficiently purge the barrel, screw, and nozzle, as well as hot runner systems, removing all types of colorants and commodity resins, including polypropylene, polyethylene, and their copolymers, particularly if they contain glass or fillers.

PURGEX 457 Plus assures rapid turnaround on color and material changes with polyolefins and their copolymers, styrenics polymers, acetals, vinyls, TPO, TPU, and many other resins processed in this temperature range. PURGEX 457 Plus can also be used on PVC purging applications and will neutralize HCl gasses.

How To Use:**INJECTION MOLDING**

- Empty barrel of production resin.
- Add PURGEX 457 Plus to the hopper (a minimum of 1.5 times the injection capacity).
- Purge the barrel until PURGEX exits the nozzle.
- Soak five minutes at processing temperature with barrel full and screw in forward position.
- Purge barrel to empty.
- Follow with next production resin, rinsing PURGEX from machine. Resume molding.

EXTRUSION

- Empty extruder.
- Remove screen.
- Seal vent.
- Fill extruder with PURGEX 457 Plus.
- Make certain extruder is full and PURGEX is exiting the nozzle as a foaming material.
- Soak five minutes at processing temperature.
- Add the next resin to be extruded and remove all PURGEX from the extruder.
- When it appears that PURGEX has been completely removed, replace the screen, open the vent, and commence production.



Bathroom Products Manufacturer Saves By Purging With PURGEX

A Midwestern supplier of injection molded residential bathroom products molds his products on a Cincinnati Milacron 700 ton press with a 165 ounce injection capacity. These parts are manufactured at 400°F using a polypropylene homopolymer. The machine has a running rate of 30 parts per hour.

The manufacturer used 20 pounds of PURGEX 457 Plus during a changeover from medium blue to white. It then used 20 lbs. of the next production resin to rinse the PURGEX from the machine (value \$0.44/lb.). The purge time was 20 minutes for this machine that has a machine time cost of \$60 per hour.

Prior to using PURGEX, the facility used another commercial purging compound. It used an identical amount (20 lbs.) of the other compound to purge the machine, and the purging time was also 20 minutes with this product. It did, however, require 50 lbs. of the next resin to rinse this compound from the machine (value \$0.44/lb.).

Results

The cost of the competitive purging compound was 20% higher than the cost of PURGEX. This added to the cost of the purge, as did the 30 lbs. additional resin (value \$0.44/lb.) that was required to rinse the purging compound from the machine's barrel, screw, and nozzle.

Using the PURGEX 457 Plus, the facility's purging cost was \$58.80 per purge. The cost using the competitive compound was \$82.00, a savings of \$23.20 (more than 28%) by using PURGEX. Based on an average of two color changes per day, the annual savings at this customer's facility is approximately \$12,500 per press.



Purging Compounds That Really Work
Neutrex, Inc.

11119 Jones Road West, Houston, Texas 77065

Toll Free: 800-803-6242

Tel: 281-807-9449 ■ Fax: 281-807-9748

Email: neutrex@neutrex.com

Web: www.neutrex.com