

Case Study

Extruder lowers purging costs by 68% and boosts productivity using Dyna-Purge®.



DLH Industries was using acrylic to purge five extrusion machines two or three times every day, heating the acrylic higher than the resident resin processing temperatures. After switching to Dyna-Purge, the company reduced purging costs by 68% while cutting downtime and improving safety.



Producing automotive tubing from polyolefins, Nylon 6 and Nylon 12, DLH Industries often would remove and clean the screw manually when changing from strong colors to natural resins. This is no longer necessary because **Dyna-Purge**, a thermoplastic compound, cleans thoroughly on the first pass.

Situation:

DLH Industries, Inc., Canton, Ohio, produces automotive tubing using five Welex extrusion machines with 0.500" dies and screw sizes ranging from 2" to 3-1/2". Barrel temperatures range from 300°F to 500°F in the processing of polyolefins, Nylon 6 and Nylon 12.

The company used acrylic to purge two or three times daily when changing from colors to natural resins. This required raising temperatures above 500°F for the acrylic to be effective.

Purging strong colors, such as red or green, meant pulling out the screw for thorough cleaning. Considering time and material costs, the cost per purge was calculated at \$262.00.

Solution:

Use **Dyna-Purge X**, a grade designed to purge a wide range of resins from the barrel and screw of profile and sheet extruders at 320°F to 575°F (160°C to 302°C).

Results:

- Dyna-Purge cleans thoroughly without having to remove the screw, **saving as much as three hours per purge in downtime.**
- **The average cost per purge decreased by 68% to \$83.25.**
- Less clean-up is needed using Dyna-Purge, so production can be resumed quicker boosting productivity.
- Since Dyna-Purge is introduced at the resident resin processing temperature, it is safer and easier to work with than other purging methods.

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