



Nytef Application Ideas

UNITAL Acetal Solves Intermittent Problem

Background: Timing screws have long been used as a key metering device in modern, high speed packaging lines at food and pharmaceutical facilities. As line speed increased and more efficiency was needed, equipment manufacturers turned to plastics to replace metal due to outstanding performance in terms of faster machining and weight reduction. Initially cast nylon was the material of choice, but even a plastics work horse like cast nylon met its match in this particular application.

Problem: Generally speaking, cast nylon works very well for timing screws, but in this case the nylon screws would bind intermittently, which necessitated slowing the line significantly. At other times, the line ran well making this “on again- off again” problem a real source of frustration for the maintenance manager and his staff.

Nytef Engineered Solution: Sometimes timing is everything--a Nytef Territory Sales Manager was on a joint call with his distributor partner at the exact time the problem re-occurred. Due to his experience, the Nytef manager quickly and easily determined the problem, e.g., moisture absorption and consequent swelling of the cast nylon screw, which caused it to exceed the operational tolerances of this portion of the line. He recommended UNITAL copolymer acetal due to its excellent dimensional stability and ease of machining. The brilliant white color is a bonus, adding to the visual appeal of this part. The line has been running flawlessly, at highly efficient speeds ever since.



This UNITAL copolymer acetal timing screw solved the mystery of intermittent production line slowdowns because of its excellent dimensional stability due to inherent, extremely low moisture absorption compared to cast nylon.

Industries

- Aerospace
- Automotive
- Chemical
- Food/Beverage
- Petroleum
- Pharmaceutical
- Medical
- Semiconductor
- Transportation
- Mining
- Specialty Machinery

Materials

- Acetal
- Nylon
- PEEK
- PPS
- PBT
- PPO
- PVDF
- PEI (Ultem[®])
- Polycarbonate
- Custom Formulations

Nytef Customer Fulfillment Centers

- Philadelphia- 633 Dunksferry Rd., Bensalem, PA
- Chicago- 1610 Jarvis Ave., Elk Grove Village, IL
- Los Angeles- 13185 Imperial Hwy., Whittier, CA
- West Palm Beach- 6643 42nd Terrace, North, FL

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