



Nytef Application Ideas

Nytef Pumps Up This Part's Performance-

Background: A major North American specialty pump manufacturer produces a unique line of positive displacement pumps that feature a gentle, yet efficient operation for a pulse-free, laminar flow. These leading-edge technology pumps are marketed primarily to food processing and pharmaceutical companies that require extremely even flow rates due to their processing and filling operations.

Problem: Originally blue cast nylon (polyamide) was specified as a liner material for these pumps. However, the engineering staff soon determined that this material exhibited a high moisture absorption rate, poor wet wear performance and lacked the FDA compliance needed for certain food contact pumps. Further, the blue color of the material proved to be unacceptable to the end user, in terms of a clean, low maintenance appearance.

Nytef Engineered Solution: Nytef Plastics' experienced sales staff quickly determined the key issues and recommended an alternative that solved all of the problems of this application. FDA compliant, oil impregnated, UNIPA® MLo white cast nylon was prototyped, which surpassed all requirements for wear, even under the company's most demanding testing protocol. Izod notched impact was increased by a factor of four, while reducing the moisture absorption by over 300%, making for much tougher, dimensionally stable parts. Significantly lowered moisture absorption yielded other benefits, such as greatly reduced packaging and storage costs for spare parts.



These FDA compliant, oil-impregnated cast nylon pump liners produced from Nytef Plastics' UNIPA MLo, offer much higher key properties compared to the non-FDA blue polyamide pump liners they replaced.

Industries

- Aerospace
- Automotive
- Chemical
- Food/Beverage
- Petroleum
- Pharmaceutical
- Medical
- Semiconductor
- Transportation
- Packaging/Labeling

Materials

- Acetal
- Nylon
- PEEK
- PPS
- PBT
- PPO
- PVDF
- PEI (Ultem®)
- Polycarbonate
- Custom Filled

Nytef Customer Fulfillment Centers

- Philadelphia- 1620 Woodhaven Ave., 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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