TPU BELTS
THERMOPLASTIC POLYURETHANE

CASE STUDY

INCREASE PRODUCTION OUTPUT BY SWITCHING TO POSICLEAN™ PC20

Pork processing plant increases production, reduces scrap losses, and reduces operating costs by switching from plastic modular belt to POSICLEAN™ PC20.

End market: Meat processing
Application: Primary processing conveyor
Original parts: Plastic modular belt
Solution: PosiClean™ PC20

PROBLEM

- A national pork processor was experiencing high scrap losses due to fragments of pork trapped in the plastic modular belt openings and gaps
- The plastic modular belt scrapper could not be correctly positioned due to the chordal effect inherent in chain drives leading to additional losses of pork product

SOLUTION

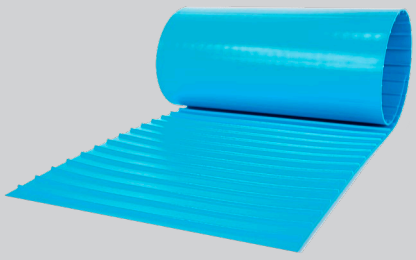
- The existing plastic modular belting was replaced with GATES® TPU POSICLEAN™ PC20 belt, a smooth surface urethane belt with a 2" pitch and embedded tension members
- The smooth continuous belt surface prevented any loss of meat during conveyance and allowed for the belt scraper to be positioned correctly at the top of the drive pulley to minimize waste

BENEFITS

- 43% less surface area to clean, no crevices to harbor contaminants
- 35% less cleaning water and 54% less cleaning labor
- No risk of food contamination from broken pins or hinges
- 30% less weight translates into longer motor and bearing life

SAVINGS

- Return on investment achieved in less than 3 weeks
- Production was increased by $135k per year
- Trim loss were reduced by 83%, from 1,200 lbs. per day to less than 200 lbs
- The clean-in-place feature cut water consumption by 181,000 gallons annually
- Reduced water usage and waste water disposal saved the plant $22,000



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