

Material solutions for high speed dairy equipment



TRENDS

Manufacturers of dairy equipment are constantly looking for possibilities to increase production speed and hence for wear and temperature resistant materials. Higher sanitation needs result in the use of high concentration of cleaning agents. The materials used in dairy equipment need to comply with 3-A Sanitary Standards.

QEPP ANSWERS

QEPP has a wide range of material solutions to address these demands. Our high-performance plastics are designed for self-lubricating situations. They are resistant against plenty of cleaning agents. Our Food Grades include plastics with food compliant composition according to 3-A Sanitary Standards.

CUSTOMER BENEFITS

The result is less downtime, less maintenance and improved performance. Quadrant Engineering Plastic Products developed a portfolio of Food Grades which are pre-qualified food compliant materials, cutting costs and saving time.

With over 60 years of expertise, our unique service approach provides the platform for bringing your concept to the production line.

Let Quadrant help you build the perfect machine for your high-speed processing needs.



QUADRANT

You inspire ... we materialize®

TIVAR® H.O.T. Milkshake filling & packaging chain guider

Challenges: The chain guider should assure a smooth sliding of the chain and therefore needs to offer excellent wear resistance towards the chain. To assure a better cleaning, the temperature during cleaning has been increased. The material solution should meet all these requirements.

Solution: A housing of TIVAR H.O.T. was selected for its excellent wear resistance combined with a superior temperature resistance compared to regular PE-UHMW.

Benefits: Excellent resistance against cleaning chemicals and food contact compliant composition according to 3-A Sanitary Standards for Multiple-Use Plastic Materials, Number 20-24 resulting in time savings during food compliancy certification process of the equipment.



ERTALYTE® Buttermilk filling piston

Challenges: A piston is used to pump a milk-based liquid into the bottles. It is sliding along the cylinder walls and has also the function of sealing during the dosing process.

Solution: ERTALYTE was chosen for this application because it offers an excellent dimensional stability combined with good wear resistance.

Benefits: When using ERTALYTE there is no additional need for external lubrication. ERTALYTE has a food compliant composition according to EU directive 2002/72/EC and 3-A Sanitary Standards for Multiple-Use Plastic Materials, Number 20-24. This is shortening the compliancy certification process, saving costs and increasing productivity.



Due to the shorter shelf life of processed milk based products, dairy equipment needs to be cleaned in line with hygiene guidelines. The cleaning process should comply with supplementary regulations as defined by 3-A Dairy, taking into account changes in weight during cleaning procedures. Fat resistance is key to food safety and cleanliness. To ensure good flexibility whilst changing different modules of the equipment the materials used should show excellent dimensional stability, especially in a wet environment. Quadrant offers a portfolio of Food Grade materials which meet these requirements. Parts can be machined using materials with dimensional stability to very tight tolerances as a means of reducing trapped foods.



Learn more online at
www.quadrantplastics.com

Quadrant has extensive product and machining resources available online. Our website is a portal to a wealth of technical data and the easiest way to engage our application specialists. Our team stands ready to help offer solutions to your toughest problems.

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