

Material solutions for high speed food packaging equipment

TRENDS

Today's high speed packaging lines generate more wear, heat and pressure. Materials used in packaging equipment must also withstand increased CIP and SIP respective constraints required under current regulatory standards.

ANSWERS

We offer plastics with improved wear resistance and dimensional stability over a wide temperature range. Our plastics also withstand chemicals such as alkaline or acid agents used in the various cleaning processes.

BENEFITS

This means less downtime and less maintenance, adding up to improved performance and cost savings. And of course, our plastics have a food contact compliant composition under North America and European regulations.

We provide high performance plastic rod, plate or tube for machining or as finished parts.

Techtron HPV PPS Paper Box Packaging Mould

Challenges: A packager needed a mould to form the paper box in its equipment for liquids. The mould needed high mechanical strength to resist the compression forces and dimensional stability under load and temperature. Wear resistance, low weight and chemical resistance during CIP cleaning were also required.

Solution: Techtron HPV PPS was chosen due to its better wear resistance over PEEK or aluminium. The plastic has excellent dimensional stability under load, with no moisture and a low cut CLTE.

Benefits: Costs were reduced due to lower maintenance requirements. There are no corrosion problems as with aluminium moulds, even when harsh chemical cleaners and sterilisation processes are applied. Low weight and in-use noise level, food contact compliance, excellent hygiene, safety in use and ergonomical handling during maintenance are all part of the package.

TIVAR 1000 Conveyor Stars

Challenges: Bottling and canning lines require sliding elements with good sliding and wear properties. The material has to be non-sensitive to impact and must withstand chemical cleaners.

Solution: Conveyor stars made of TIVAR 1000 meet all criteria for applications in filling lines. TIVAR 1000 offers excellent sliding properties and high wear resistance. Its impact strength protects bottles/cans and conveyor lines. A very good chemical resistance extends its lifetime and reduces downtimes.

Benefits: Filling, transportation and packaging lines profit from the excellent sliding and wear properties of TIVAR 1000. Line operators appreciate its good working temperature range and noise absorption.

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