

CURBELL PLASTICS

We're everywhere. Put us to work – for you!™

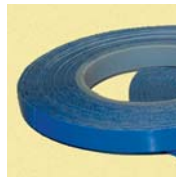
For over 65 years, Curbell Plastics has worked with our customers to define their needs, understand their specific applications, and identify the right plastics solutions for those applications. Case histories from our customers have shown us that choosing the right material can improve production efficiency, reduce downtime, and ultimately save you money. Put us to work for you, and let us help you find the right plastic for the job.



HOPPER

Solution: UHMW

Benefits: Non-corrosive UHMW products provide flow promotion, wear resistance, and lubrication when conveying abrasive, wet, sticky, or fine particles in hoppers or chutes.



TAPES AND FABRICS

Solution: PTFE Coated Fabric Tape

Benefits: PTFE coated tapes offer very low coefficient of friction and high heat resistance that will permit material to easily flow through ovens and heat sealing applications.



CONVEYOR CHAIN WEAR GUIDES

Solution: Nylon, UHMW

Benefits: High performance engineering plastics offer conveyor chain applications the benefit of self lubrication, ease of movement, and elimination of metal on metal wear.





























ERGONOMIC MATTING

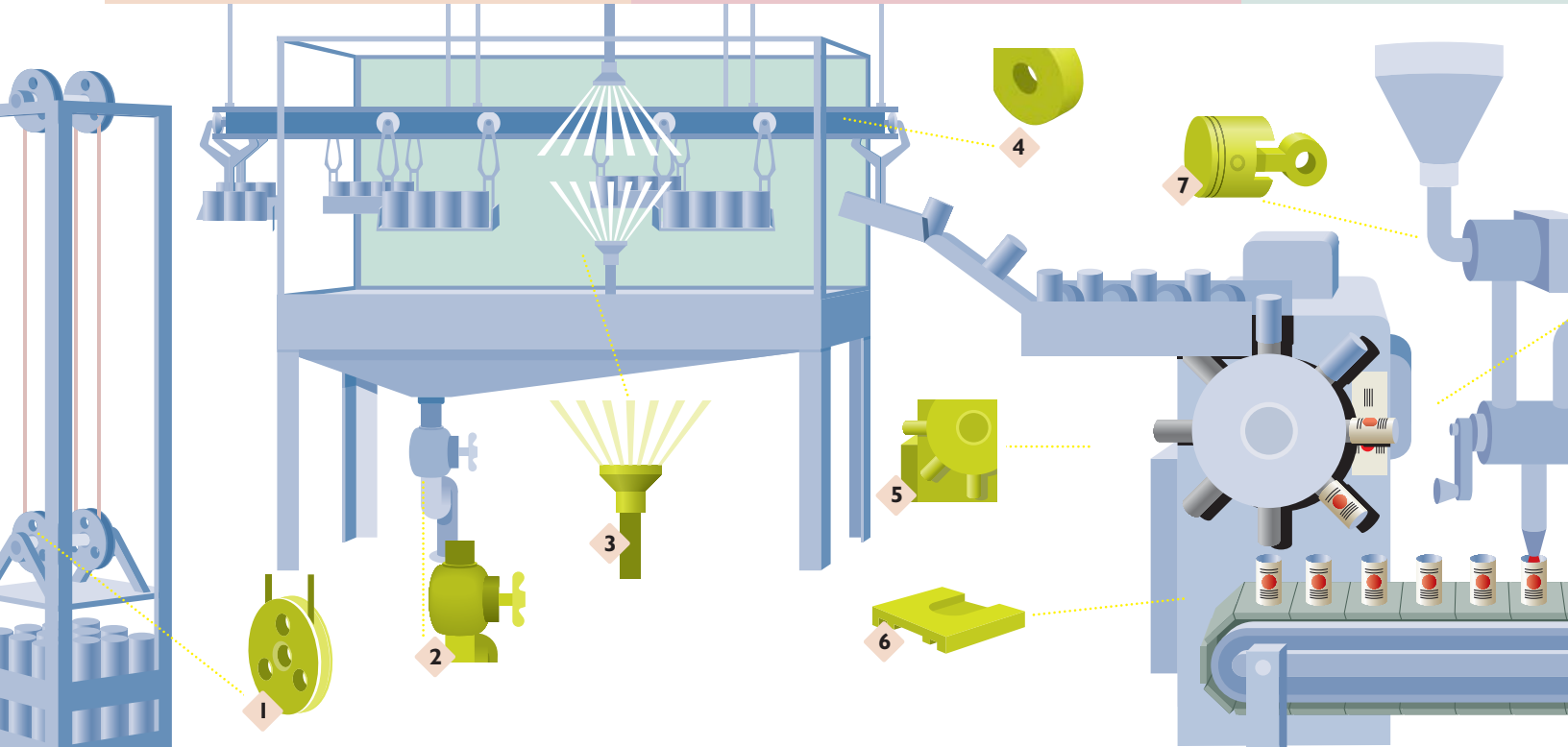
Solution: Anti-Fatigue Matting

Benefits: Ergonomic matting increases worker comfort which could lead to higher productivity, less absenteeism, and decreased insurance costs.

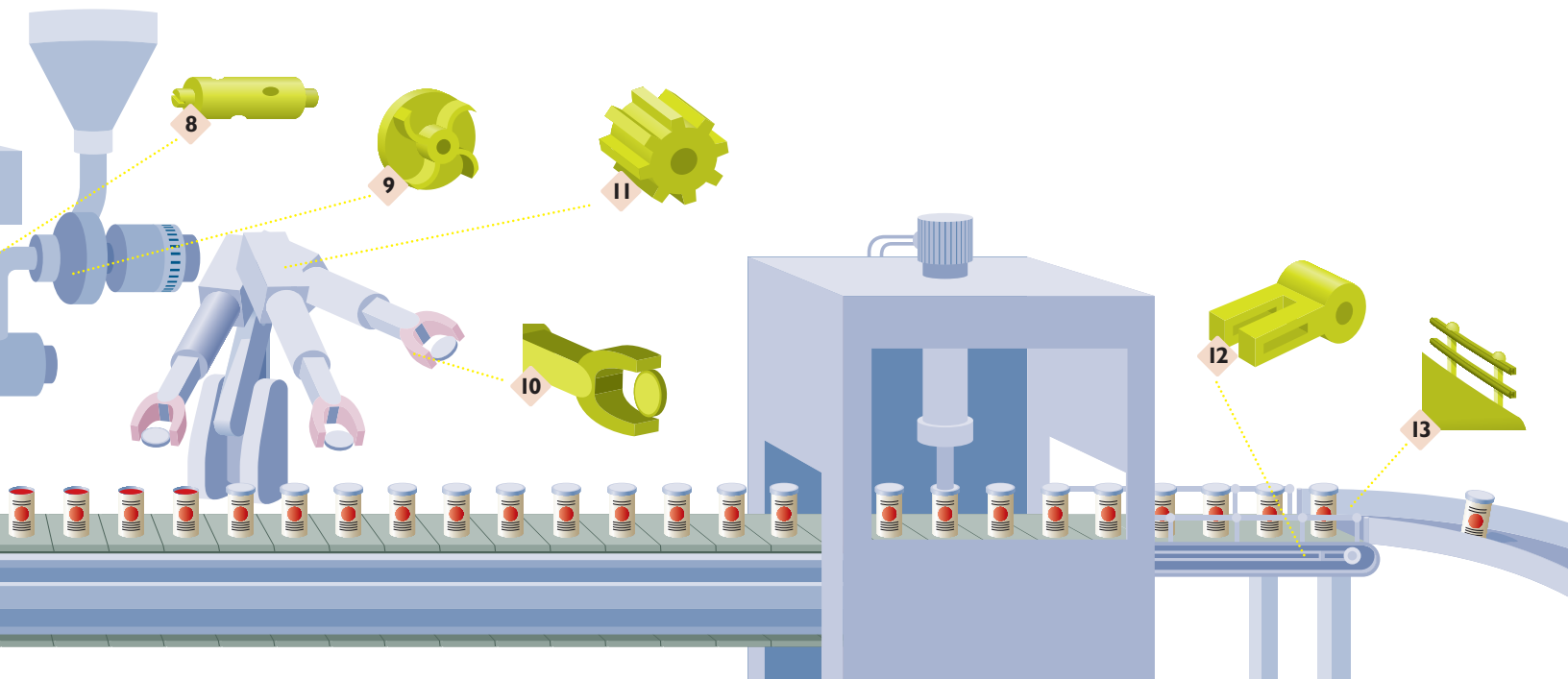
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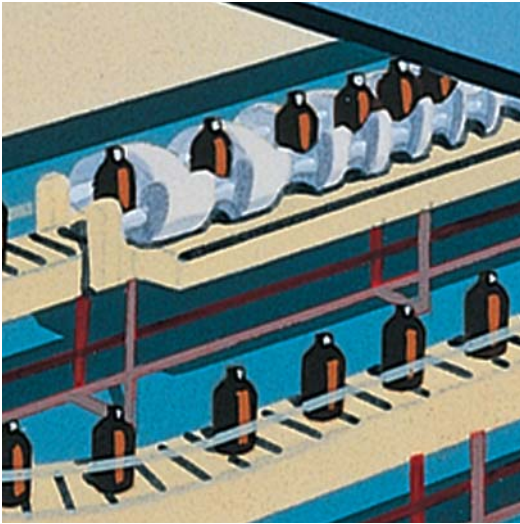
Here's where it works.

	TYPICAL APPLICATION	APPLICATION REQUIREMENTS	MATERIAL REPLACED
1	 PULLEY	 • Tensile strength • Durability • Wear resistance	Steel, aluminum
2	 BALL VALVE SEALS AND SEATS	 • Dimensional stability • High resilience • Chemical, wear, and corrosion resistance	Steel
3	 CHEMICAL SPRAY WASH-DOWN NOZZLE	 • Chemical and corrosion resistance • Dimensional stability • Mechanical strength • High temperature capabilities	Stainless steel, exotic metals
4	 CONVEYOR BEARING COMPONENTS (rolling, turning, and sliding assemblies)	 • Excessive wear fatigue resistance • Minimal product contamination • Eliminate need for lubrication	Metal guides and bearings
5	 MANDREL	 • Dimensional stability • High temperature resistance • No mutilation of fixtured components	Steel
6	 CONVEYOR SUPPORTS, TRAYS, AND FIXTURES	 • Dimensional stability • Wear and corrosion resistance of components • Electrostatic dissipative	Aluminum, stainless steel, exotic metals
7	 PISTON AND PUMP ASSEMBLIES	 • High resistance to part wear • Low moisture absorption • High corrosion resistance • Agency compliance	Common and exotic metals
8	 VALVE BODY MANIFOLD	 • Corrosion resistance • High temperature resistance • Dimensional stability • Agency compliance	Common and exotic metals
9	 IMPELLER	 • Corrosion and chemical resistance • Resistance to abrading • Eliminates frequent part replacement	Common and exotic metals, rubber
10	 ROBOTIC FIXTURES	 • Resistance to part wear, static, and corrosion • Dimensional stability • Structurally strong	Common and exotic metals
11	 SPROCKETS, GEARS, POWER TRANSMISSION COMPONENTS	 • Part wear • Dimensional stability • Corrosion resistance • Noise reduction	Common and exotic metals
12	 CONVEYOR CHAIN TENSIONER	 • High tensile strength • Durability • Wear resistance • Dimensional stability	Bearing grade metals
13	 UHMW WEAR STRIPS	 • Impact resistance • Non marking • Wear resistance • Creep resistance • Low thermal expansion	UHMW



ENGINEERING PLASTIC SOLUTIONS	BENEFITS
Nylon, UHMW	<ul style="list-style-type: none"> •Excellent wear resistance •Lower abrasive wear •Cables last longer
Acetal, PBT, PEEK, PET	<ul style="list-style-type: none"> •Replaces expensive metal machining procedures and ensures proper seal •Reduces or eliminates wear of mating parts •Excellent wear resistance
ABS, Acetal, PAI, PBT, PEEK, PET, PI, PPS, UHMW	<ul style="list-style-type: none"> •Replaces expensive exotic metals •Reduces corrosion •Decreases production downtime •Cost savings
Acetal, Nylon, PAI (bearing grade), PBT, PEEK, PET, PI (bearing grade), PPS, UHMW,	<ul style="list-style-type: none"> •Reduces maintenance •No lubrication •Decreases production downtime •No product contamination •Solid, clean, inert plastic
FDA Compliance: Acetal, PBT, PET, Nylon, Urethane (dry application only) Non-FDA Compliance: Hydlar®Z (Nylon/Kevlar®Fiber), PAI	<ul style="list-style-type: none"> •Stands up to continuous automated loading/unloading operations •Does not mark delicate machine surfaces on fixture parts •Wear resistance •Eliminates contamination
Acetal, PEEK, PBT, PET, Nylon, UHMW	<ul style="list-style-type: none"> •Replaces expensive metals •Increases part life •Decreases downtime •Wear resistance •FDA compliant •Less costly to change design
FDA Compliance: Acetal, PBT, PEEK, PET, Polysulfone, Ultem® Non-FDA Compliance: PPS	<ul style="list-style-type: none"> •Excellent wear resistance •Decreases metal contamination from wearing metal parts •Good lubricity •Good tensile properties •Non-abrasive
FDA, USDA, and USP Compliance: Acetal, PBT, PEEK, PET Non-FDA Compliance: PPS	<ul style="list-style-type: none"> •No product contamination •Less maintenance and part replacement •Increases part life •Corrosion resistance
ABS, Acetal, PAI, PBT, PEEK, PET, PI, PPS, UHMW	<ul style="list-style-type: none"> •Increases part life •No product contamination •Decreases maintenance and part wear •Decreases downtime •Decreases part cost •Chemical resistance
Acetal, Nylon, PAI (bearing grade), PBT, PEEK, PET, PI (bearing grade), PPS, UHMW	<ul style="list-style-type: none"> •Increases part life •Decreases wear, breakage, and downtime •Lighter weight •Decreases static •Less costly design changes •Decreases product damage
Acetal, Nylon	<ul style="list-style-type: none"> •Increases part life and stability •Decreases maintenance and downtime •Fatigue resistance •Decreases noise •No contamination from metal particles
Acetal, Nylon, PBT, PET	<ul style="list-style-type: none"> •Corrosion resistance •Lower coefficient of friction •Fatigue resistance to continuous loads •Doesn't wear mated metal components •Noise reduction
Acetal, Nylon, UHMW	<ul style="list-style-type: none"> •Heat resistance •Low friction •Wear resistance •Dimensional stability •Self lubricating

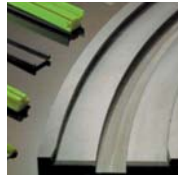




TIMING SCREWS

Solution: Acetal, UHMW

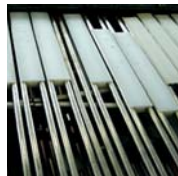
Benefits: Engineering plastics' non-toxic, low-friction surfaces move materials predictably and smoothly, outperforming expensive stainless steels.



CONVEYOR CHAIN GUIDES AND SPROCKETS

Solution: Acetal, Nylon, PBT, UHMW

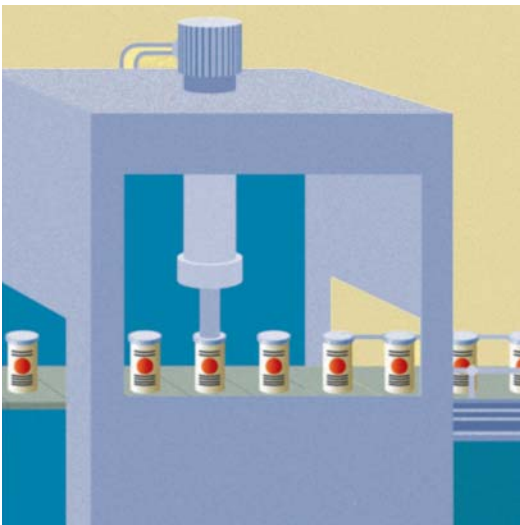
Benefits: Engineering plastics' are non-abrasive to mating components making them inherently superior to metals.



WEAR PADS AND FIXTURES

Solution: Acetal, Nylon, PBT, UHMW

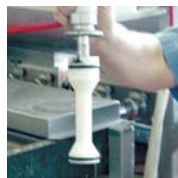
Benefits: Engineering plastics withstand attack from harsh chemicals and wash downs. They keep machinery moving without lock-ups caused by corroded metal components.



GENERAL PURPOSE ONE PART SEALANT

Solution: RTV Silicones

Benefits: One part sealants cure at room temperature and offer good sealing and bonding properties.



PLUNGER

Solution: Acetal, PBT, PEEK, PET, Ultem®

Benefits: Many performance engineering plastics offer non-toxic, FDA compliant options for demanding caustic food processing environments.



SAFETY GLAZING

Solution: Acrylic, PETG, Polycarbonate

Benefits: Polycarbonate or PETG offer clear, virtually unbreakable options in safety or window grades that can stand up to harsh chemical environments.

Put us to work – for you!™

Curbell Plastics has been supplying plastic sheet, rod, tube, films, adhesives, sealants, tapes, prototyping and tooling materials, and fabricated parts for over 65 years

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