



#### Key Industries:

- Beverage & Liquid
- Glass and Metal Container Manufacturing
- Paper and Fiberboard Container Manufacturing

#### Key Application:

##### Container conveying

- Corrugated
- Glass
- Metal Cans
- PET

#### Material:

- DKA

#### Key Features:

- Abrasion resistant
- Low friction
- Proprietary engineered material

## Low Friction Abrasion Resistant (DKA) Material

#### Mitigated chain wear and elongation for increased uptime with container conveying.

Rexnord® Low Friction Abrasion Resistant (DKA) Material is an advanced composite resin that combines good abrasion resistance with low coefficients of friction. It can be used in both wet and dry environments. The result is a conveyor chain that can be used in aggressive corrugated, folding carton and glass container handling applications, where the product debris is known to wear other materials prematurely.

#### Reliable performance

Rexnord DKA Material provides reliable and durable performance:

- Requires little or no external lubrication to maintain low friction between the containers and chain
- Performs in wet or dry environments
- Features a pressure velocity (PV) value similar to high-performing acetal materials
- Offers our proven chain-sprocket interaction that requires no takeups and uses a catenary sag to absorb chain wear and elongation

#### Technical expertise

The combination of our material and chain design, and technical expertise, can help you choose durable conveyor systems that guarantee optimal product handling without compromising your ability to meet targets for safety improvements, increased productivity, water reduction, and energy savings. Contact your Rexnord FlatTop representative or our North American Application Engineering team at 262-376-4800 to review your application.

#### Available in Rexnord MatTop® and TableTop® Chain Series:

- 7705 ATW, MTW, MTW PT, DTS®
- 7706 MTW PT
- 8505 ATW, MTW, DTS
- 8506 MTW PT
- 1505 ATW, MTW
- 5705 MTW, MTW PT
- 279
- 1050FT
- 1055FT LPC®
- 820
- 821
- 880 TAB
- 882 TAB



Rexnord DKA Material molded in Rexnord TableTop 882 TAB Chain shown above.

**Features and benefits:**

- **Abrasion resistance** — provides the high abrasion resistance you’ve come to expect from Rexnord-developed materials
- **Low friction** — specifically designed to generate a constant, low friction between chain and containers, while providing energy savings and mitigating container damage from back line pressure
- **Adaptable** — can be used in wet or dry environments
- **Reliability** — friction between chain and container is consistent over time, eliminating the need to adjust conveyor settings
- **Performance** — designed to run without external lubrication, resulting in energy and material savings, as well as longer chain life

**General Information**

Prefix	Material	Temperature						FDA Approval
		Fahrenheit			Celsius			
		min	max		min	max		
			dry	wet		dry	wet	
<b>DKA</b>	Abrasion Resistant Composite Resin (black)	0	+180	+150	-18	+82	+66	Yes

**Friction Factors Between Material and Product**

Operating Condition	Product Material						
	Aluminum	Returnable Glass Bottles*	Non-Returnable Glass Bottles	Paper	Plastic (crates, shrink-wrap, etc.)	PET	Steel
<b>Dry</b>	0.18	0.20	0.12	0.23	0.18	0.16	0.18
<b>Water</b>	0.14	0.18	0.11	NR	0.16	0.15	0.16
<b>Soap and Water</b>	0.12	0.14	0.10	NR	0.14	0.14	0.13
<b>Oil</b>	---	---	---	NR	---	---	0.10

**Friction Factors Between Material and Wearstrip**

Operating Condition	Wearstrip Material			
	Carbon and Stainless Steel	UHMWPE	Nylatron®**	ULF™
<b>Dry</b>	0.18	0.18	0.18	0.16
<b>Water</b>	0.16	0.16	0.16	0.14
<b>Soap and Water</b>	0.13	0.14	0.14	0.12
<b>Oil</b>	0.10	0.10	0.10	0.10

NR denotes "not recommended," dash denotes "combination not tested."

\*Friction of returnable bottles will vary depending on the quality of the glass, the amount of roughed up surface, etc.

\*\*Nylatron is a registered trademark of Quadrant Engineering Plastics Products.