



# Chain Metal Material

## Carbon Steel

### C45

This carbon steel material allows a higher yield load capability than stainless steel but is not corrosion resistant. The through hardened plate material provides for a uniform hardness of 44 HRC.

**Features:**

- Surface hardness: 44 HRC

**Benefits:**

- High mechanical strength
- High abrasion resistance

## Standard Stainless steel

### STANDARD

AISI 430 Stainless steel material with good mechanical characteristics and dust resistance. An economical option for many conveying applications. Lower load and lower wear resistance capability than our other stainless steel materials.

**Features:**

- Rust resistant stainless steel

**Benefits:**

- Most economic solution

## Extra Plus Stainless Steel

### EXTRA PLUS

High performance stainless steel, specially developed for high speed and heavy duty application. Offers excellent corrosion resistance and highest surface hardness.

**Features:**

- Surface hardness of HRC 26-30 for Extra Plus
- Extremely flat and best surface finish
- High corrosion and wear resistance
- Highest ultimate yield loading capability

**Benefits:**

- Typically used in glideliners and pressureless combiners and excessively long conveyors.
- For the improvement of product stability especially for P.E.T.

## Austenitic Stainless Steel

### AUSTIC

AISI 304 Austenitic stainless steel which offers exceptionally high corrosion and acid resistance properties

**Features:**

- Non magnetic stainless steel
- 18% chrome and 8% nickel

**Benefits:**

- High corrosion and acid resistance material

# Pin Metal Material

## Standard PIN Material

### SPM

Special Austenitic stainless steel with higher tensile strength and improved surface hardness.

These pins are offered as standard in stainless steel and plastic chains.

**Features:**

- High wear, corrosion and acid resistance

**Benefits:**

- Longer wear life.

## Special PIN Material

### HB

Vacuum hardened stainless steel with exceptionally high wear resistance characteristics, good corrosion and chemical resistance, for high speed and or abrasive applications.

**Benefits:**

- Ultimate abrasion resistance
- Outstanding wear life

# Standard Chain Plastic Material

## Grey Acetal Resin

**D**

**W**

It is an acetal based material which is used as an economical alternative to our LF acetal material. Acetal is an ideal material for conveyor chains as it offers high tensile + fatigue strengths, good co-efficient of friction and excellent wear resistance properties.

**Operating temperatures:**

in air: - 40°C to + 80°C

in hot water: + 65°C

**Colour:** Grey or White

This material is FDA (Food and Drug Administration) approved for direct contact with food.

## Low Friction Acetal Resin

**LF**

**LFG**

**LFW**

It is identical to the delrin acetal material and offers an improved co-efficient of friction. This material is suitable for use in high speed applications.

**Operating temperatures:**

dry: - 40°C to + 80°C

wet: 0°C to 65°C

**Color:** Light Brown, Dark Grey or White

This material is FDA (Food and Drug Administration) approved for direct contact with food.

## Extra Performance

**XPG**

Extra performance additivated Acetal with a very low co-efficient of friction than LF materials. Suitable for high speed applications and reduced lubrication.

**Operating temperatures:**

dry: - 40°C to + 80°C

wet: 0°C to 65°C

**Color:** Dark Grey

This material is FDA (Food and Drug Administration) approved for direct contact with food.

## New Generation

**NG**

Extra performance PBT with lowest coefficient of friction, in our range resulting in medium strength and optimum wear resistance and reduced plate wear reduced pitch elongation. Suitable for high speed and dry running applications available exclusive from **Flexon-System Plast**.

**Operating temperatures:**

up to 120°C

**Color:** Green or Dark Grey

## Special Chain Plastic Materials

*On request and for adequate quantities these chains may be produced in other materials as:*

### Anti-static acetal resin

**AS**

Anti-static material with improved surface conductivity for greater protection against static electrical charges.

**Operating temperatures:**

in air: - 40 °C to + 80 °C

in hot water: + 65 °C

**Colour:** Black

### High Temperature Resistance

**HT**

High temperature material for applications up to 120°C. Special materials are also available for temperatures up to 200°C.

### Chemical resistance

**CR**

Polypropylene material for greater acid and chemical resistance. Polypropylene has lower mechanical strength than acetal.

**Operating temperatures:**

in air: - 40 °C to +100 °C

**Colour:** White

### Abrasion Resistant

**AR**

Special wear resistant resin with improved abrasion resistance characteristics for conveying abrasive products like glass, steel cast iron.

**Operating temperatures:**

in air: - 10 °C to +100 °C

**Colour:** Black