Facings and Backings

Construction and properties

The idea of state-of-the art conveying technology with timing belts is based on the knowledge that one belt construction can unite several characteristic properties.

Our answer is coated BRECO and BRECOFLEX TIMING BELTS. Every material involved assumes its task according to its specific property.

Construction and properties

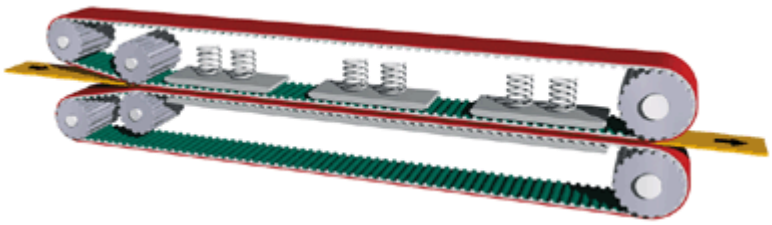
A - Transport coating
B - PUR highly loadable
C - Steel cord length constant
D - Nylon low friction effect

Every material involved assumes its task according to its specific property.

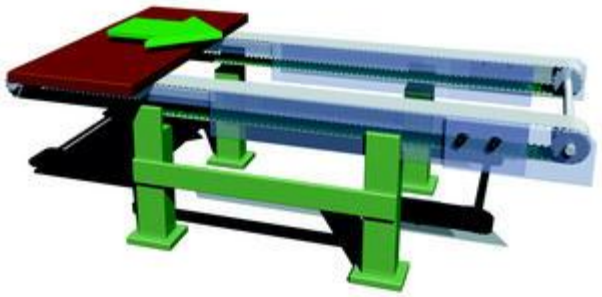
The application of timing belts as belt conveyor is marked by a positive fit tooth mesh in the drive pulley assembly. The belt speeds are always synchronised. BRECO and BRECOFLEX TIMING BELTS consist of polyurethane and steel cord tension members. They accept very high loads. A nylon facing on the tooth side has a low friction effect with bed plates.

Examples

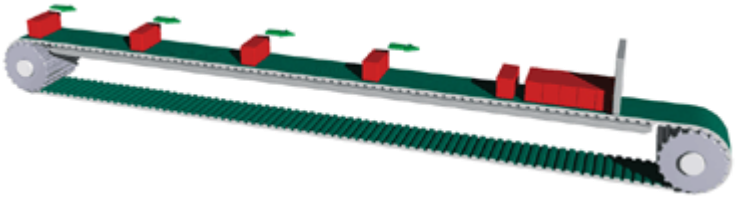
The different facing/backing materials help achieve the desired properties, i. e. high friction, low friction, soft, rigid, elastic surfaces etc. To meet specific transport tasks, the tooth side and/or the transport side can be mechanically reworked. In this manner, e.g. the flexibility of the entire belt can be restored by making incisions in thick coatings.



Haul-off system



Parallel belt conveyor



accumulation conveyors

Version T

Material designation: Polyurethane
Colour: transparent
Hardness: 85 shore A
Available thicknesses: 2 mm
Minimum diameter: 80 mm
Temperature resistance: 80 °C
Resistances: resistance against simple oils and fats
Characteristics: highest wear resistance
Fields of application: Transport of mechanically aggressive parts

NP 385

Material designation: Polyurethane
Colour: transparent
Hardness: 85 shore A
Available thicknesses: 4 mm
Minimum diameter: 120 mm
Temperature resistance: 80 °C
Resistances: resistance against simple oils and fats
Characteristics: Noppen tip contact with the product to be transported
Fields of application: Transport with oil contact

FG

Material designation: Polyurethane
Colour: transparent
Hardness: 85 shore A
Available thicknesses: 4 mm
Minimum diameter: 120 mm
Temperature resistance: 80 °C
Resistances: resistance against simple oils and fats
Characteristics: Linear contact with the product to be transported
Fields of application: Transport with oil contact

PUR 385

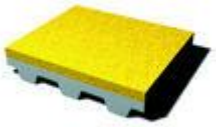
Material designation: Polyurethane
Colour: transparent
Hardness: 85 shore A
Temperature resistance: 80 °C
Available thicknesses: 3 ; 4 ; 5 ; 6 mm
Minimum diameter: 80 ; 120 ; 150; 180 mm
Resistances: Resistant to petrol, ozone, simple fats and oils
Characteristics: high wear resistance, high coefficient of friction
Fields of application: Transport of parts showing a coarse surface or burrs

Sylomer

Material designation: FKM
Temperature resistance: 80 °C
Resistances: resistance to some oils and fats
Characteristics: good wear resistance
Fields of application: Transport of lightweight parts

Colour	Blue (R)	Green (L)	Brown (M)
Dichte [g/dm3]	220	380	400
Lieferbare Dicken [mm]	3 à 25	3 à 25	3 à 25
Mindestdurchmesser [mm]	80, 120	80, 120	80, 120

PU yellow



Material designation: Polyurethane
Colour: yellow
Hardness: approx. 60 shore A
Temperature resistance: 60 °C
Resistances: resistance against simple oils and fats
Characteristics: good wear resistance
Fields of application: Vacuum transport belts subject to high loads

Available thicknesses [mm]	2	3	4	5
Mindestdurchmesser [mm]	60	60	80	100

Supergrip green/blue

Material designation: PVC
Hardness: approx. 30 shore A
Available thicknesses: 4 mm
Minimum diameter: 60 mm
Temperature resistance: 60 °C
Characteristics: high wear resistance, high coefficient of friction
Fields of application: well suited for inclined conveying

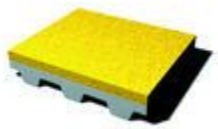
Colour	green	blue
Beständigkeiten	beständig gegen Fette und Öle	nicht ölbeständig

Porol

Material designation: Cellular rubber
Colour: black
Density: 190 g/dm³
Temperature resistance: 60 °C
Resistances: limited resistance against simple oils and fats
Characteristics: soft foam quality
Characteristics: transport of sensitive parts

Available thicknesses [mm] - combinations possible	2	3	5
Mindestdurchmesser [mm]	30	40	60

Celloflex



Material designation: PU foam
Colour: brown
Density: 350 g/dm³
Available thicknesses: 2, 3, 5 mm
Minimum diameter: 40 mm
Temperature resistance: 80 °C
Resistances: limited resistance against simple oils and fats
Characteristics: highly flexible
Fields of application: Transport of sensitive products

HV1 film

Material designation: Polyurethane
Colour: transparent
Hardness: approx. 80 shore A
Available thicknesses: 1 mm
Minimum diameter: 60 mm
Temperature resistance: 80 °C
Resistances: resistant to some cleaning agents
Characteristics: good wear resistance

Fields of application: Foodstuff industry

Compound coating

Material designation: e. g.: PUR film HV 1 on porol foam
Colour: transparent/black
Hardness: 85 / 15 shore A
Available thicknesses: 5 mm + 1 mm
Minimum diameter: 60 mm and over
Temperature resistance: 60 °C
Resistances: in accordance with the materials used
Characteristics: soft support, but wear resistant surface
Fields of application: Transport of parts of varying dimensions

Compound coating

Material designation: e. g.: PUR/silicone
Colour: white
Hardness: 60 / 50 shore A
Available thicknesses: 2.4 mm
Minimum diameter: 60 mm and over
Temperature resistance: 80 °C, temporarily 180 °C (only silicone)
Characteristics: non-stick, very adhesive
Fields of application: Transport of light-weight products

Chrome-leather

Material designation: Leather
Colour: greyblue
Hardness: -
Temperature resistance: 60 °C
Resistances: resistance against simple oils and fats
Characteristics: good friction, good abrasion behaviour
Fields of application: Transport of parts implying contact with fats and oils

Available thicknesses [mm]	2	3
Diamètre min. d´enroulement [mm]	80	100

Viton

Material designation: FKM mix
Colour: black
Hardness: approx. 75 shore A
Available thicknesses: 2 mm
Minimum diameter: 80 mm
Temperature resistance: max. 200 °C (only coating)
Resistances: high heat resistance
Characteristics: resistance against simple oils and fats
Fields of application: short-time transport of parts having a high residual heat

Correx

Material designation: Para rubber
Colour: brown
Hardness: approx. 35 to 40 shore A
Temperature resistance: up to approx. 70 °C
Resistances: limited resistance against oils and fats
Characteristics: wear resistant quality, good carrying behaviour
Fields of application: general transport equipment

Available thicknesses [mm]	6	10
Diamètre min. d´enroulement [mm]	80	120

Linatex

Material designation: Natural rubber
Colour: red
Hardness: approx. 40 shore A
Temperature resistance: up to approx. 60 °C
Resistances: resistant to some oils
Characteristics: high wear resistance and resistance to rupture
Fields of application: transport or haul-off belts subject to high friction

Available thicknesses [mm]	16	2,4	32	4,8	6,4	12,7	20
Diamètre min. d´enroulement [mm]	25	30	40	40	40	60	80

Polythane D44

Material designation: Polyurethane
Colour: transparent / yellow
Hardness: 70 shore A
Available thicknesses: 2 to 5 mm
Minimum diameter: 60 mm and over
Temperature resistance: 80 °C
Characteristics: wear resistant
Fields of application: general transport tasks

PVC white

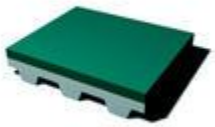
Material designation: PVC
Colour: white
Hardness: approx. 40 shore A
Temperature resistance: 80 °C
Resistances: limited resistance against oils and fats
Characteristics: FDA approval for contact with foodstuff
Fields of application: Foodstuff industry

Available thicknesses [mm]	2	3	4	5	6
Mindestdurchmesser [mm]	60	60	80	80	120

PVC herringbone

Material designation: PVC
Colour: white
Hardness: approx. 40 shore A
Available thicknesses: 4 mm
Minimum diameter: 80 mm
Temperature resistance: 80 °C
Resistances: limited resistance against oils and fats
Characteristics: FDA approval for contact with foodstuff
Fields of application: Foodstuff industry

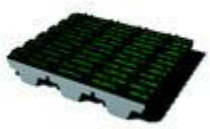
PVC blue



Material designation: PVC
Colour: blue
Hardness: approx. 40 shore A
Temperature resistance: 80 °C
Resistances: limited resistance against oils and fats
Characteristics: high coefficient of friction
Fields of application: Transport of paper, film and wood

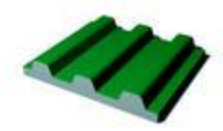
Available thicknesses [mm]	1	2
Mindestdurchmesser [mm]	30	30

PVC Minigrip



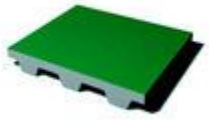
Material designation: PVC
Colour: green
Hardness: approx. 40 shore A
Available thicknesses: 1 mm
Minimum diameter: 30 mm
Temperature resistance: 80 °C
Resistances: limited resistance against oils and fats
Characteristics: high coefficient of friction
Fields of application: transport of parts implying contact with fats and oils

PAZ



Material designation: Nylon
Colour: green
Temperature resistance: 80 °C
Resistances: resistance against simple oils and fats
Characteristics: Low coeficient of friction
Fields of application: supported transport timing belts

PAR



Material designation: Nylon
Colour: green
Temperature resistance: 80 °C
Resistances: resistance against simple oils and fats
Characteristics: Low coeficient of friction
Fields of application: light weight accumulation conveyors

PAZ / PAR

Material designation: Nylon
Colour: green
Temperature resistance: 80 °C
Resistances: resistance against simple oils and fats
Characteristics: Low coeficient of friction
Fields of application: Supported transport timing belts used as accumulation conveyors