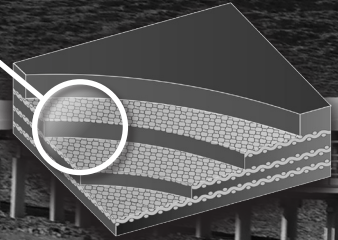


DUNLOP TRIOFLEX®

CONVEYOR BELTS

**THE IDEAL BELT FOR HEAVY LOADS,
COARSE MATERIALS AND ADVERSE
LOADING CONDITIONS**



HIGH IMPACT / HEAVY DUTY BELTS

TrioFlex has been designed in line with the modern MPC-trend (minimum ply concept) and can be used very successfully for medium up to the heaviest service conditions, adverse loading conditions and coarse materials. As its name implies, the TrioFlex carcass consists of three extremely tough and resilient EP fabric plies that are impervious to moisture and have a low elongation. There is an extra tough rubber layer between the plies. This all adds up to outstanding levels of impact and tear resistance.

- Tensile strengths available from 400 N/mm up to 1250 N/mm
- Wide range of widths available, from 400 mm up to 2200 mm
- High quality cover compounds suitable for -60°C up to +400°C, fire resistant, oil, grease and abrasion resistant
- Higher impact and tear resistance due to thicker rubber layers between the fabric plies
- Higher splice performance than conventional multi-ply belting
- Higher effective load support than conventional multi-ply belting

APPLICATION AREAS

TrioFlex belts provide superb reliability and durability in a wide cross-section of industries, including the steel industry, blast furnaces, mining and coke industry, ore transport, stone industry and processing industries.

AVAILABILITY

TrioFlex belts are available from stock in 500 and 630 N/mm tensile strengths using the Dunlop RS (high wear and cut resistance) cover quality. Other tensile strengths and cover grade options can be made to order. Available in widths from 400mm up to 2200mm.



**HIGH RESISTANCE
IMPACT, RIPPING & TEARING**



**SUPERIOR
LOAD SUPPORT**



**EXCELLENT
SPlice PERFORMANCE**

UNRIVALLED TECHNICAL SUPPORT AND GUIDANCE

When you buy from Dunlop you get more than just quality conveyor belts because we have one of the largest, most experienced and highly trained teams of conveyor belt specialists and application engineers in the industry.

Dunlop provides an unrivalled level of customer service – visiting our customers on-site, providing advice, guidance and practical support including:

- ▶ Site visits and surveys
- ▶ Belt calculation services
- ▶ Technical training (on-site and Dunlop based)
- ▶ Splice training
- ▶ Trouble shooting and problem solving
- ▶ In-house research, testing and development
- ▶ After-sales support

HELPLINE
+31 (0) 512 585 555

ADDITIONAL INFORMATION
WWW.DUNLOPCB.COM

We are never more than a phone call away when our customers need our help or advice. This service is extremely well supported by our extensive network of highly reputable Dunlop Authorised Distributors, Vulcanisers and Approved Agents.



TECHNICAL INFORMATION

Belt type	Carcass thickness [mm]	Carcass weight [kg/m ²]	Pulley diameters *			Min. width ** [mm]	Max. belt width [mm] for satisfactory load support with material density of t/m ³ : **			
			A [mm]	B [mm]	C [mm]		< 0.75	0.75 - 1.5	1.5 - 2.5	2.5 - 3.2
			T 400/3	4.5	5.8		400	315	250	650
T 500/3	4.9	6.2	500	400	315	800	2000	1800	1600	1400
T 630/3	5.2	6.5	630	500	400	800	2000	1800	1600	1400
T 800/3	5.9	7.3	800	630	500	800	2200	2000	1800	1600
T 1000/3	6.1	7.4	800	630	500	1000	2200	2200	2000	1800
T 1250/3	7.0	8.6	1000	800	630	1000	2200	2200	2200	2000

* Diameter for belt-loads from 60% up to 100%.
For lower loads a smaller diameter can also be suitable.

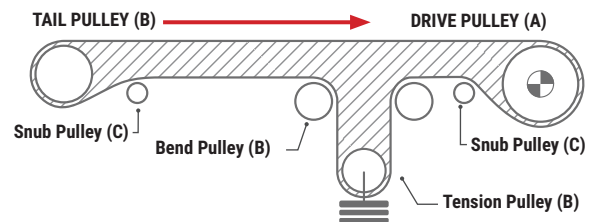
** The load support of a belt is a factor of the belt width, belt strength and bulk material density. The table indicates the limits for correct load support, based on three idlers of the same length set at 30°.

1 TO DETERMINE THE TOTAL BELT THICKNESS (EXCLUDING FIRE RESISTANT BELTS)

Add the sum of the covers to the carcass thickness.

2 TO DETERMINE THE BELT WEIGHT PER M² (EXCLUDING FIRE RESISTANT BELTS FOR WHICH OTHER WEIGHTS APPLY)

Multiply the sum of the covers by 1.15 and add the result to the carcass weight.



A WIDE RANGE OF COVER QUALITIES

ALL DUNLOP COVER QUALITIES ARE ANTI-STATIC ACCORDING TO EN 20284

Dunlop Cover Quality		DIN quality	EN/ISO quality	Permissible temp. °C ¹			Base polymer	Technical Features Application Area
				Min. Ambient	Cont. Material	Peak Material		
Abrasion resistant	RA	Y		-30	80	100	SBR	Abrasion resistant for more severe service conditions.
	RE	X	H	-40	80	90	NR	Excellent resistance to cuts, impact, abrasion and gouging resulting from large and heavy lump sizes.
	RS	W	D	-30	80	90	NR/SBR	Impact and extra wear resistance for conveying highly abrasive materials of mixed lump sizes.
Heat resistant	Betahete	T	T1	-20	160	180	SBR	Heat and wear resistant for high temperature materials.
	Deltahete	T	T3	-20	200	400	EPM	Superior heat resistant for heavy duty service conditions, up to 400 °C for short time intervals.
Oil resistant	ROM	G		-20	80	90	SBR/NBR	Oil and fat resistant for most products with animal and vegetable oils and fats. ²
	ROS	G		-20	80	120	NBR	Oil and fat resistant for products containing mineral oils.
Fire resistant	BV	K/S ³	2A/2B	-20	80	90	SBR	Highly fire resistant according to EN 12882 and EN ISO 340.
Fire resistant & Oil resistant	BV ROM	K/S ³	2A/2B	-20	80	90	SBR/NBR	Combines features of ROM and fire resistant according to EN 12882 and EN ISO 340.
	BV ROS	K/S ³	2A/2B	-20	80	90	NBR	Combines features of ROS and fire resistant according to EN 12882 and EN ISO 340.

¹ For elevator belts other values apply. For low ambient temperatures please ask for information regarding our Coldstar range.

² In some cases (with products containing high concentrations of animal and vegetable oils) ROS should be selected.

³ K = fire resistant with covers.

S = fire-resistant with and without covers.

Other cover grade qualities for special applications are available upon request.

All information and recommendations in this bulletin have been supplied to the best of our knowledge, as accurately as possible and updated to reflect the most recent technological developments. We cannot accept any responsibility for recommendations based solely on this document.