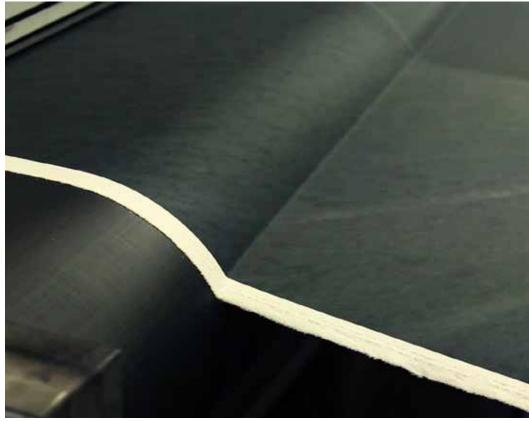


Your partner for product excellence

Conveyor belts Tangential belts Technical items







**Textile industry** 



# Conveyor belts Tangential belts Technical items

Chiorino produces a complete range of high performance items able to meet all application requirements of the whole textile cycle, from yarn production to printing, cutting and packaging.

Chiorino **textile Culture** & **Experience**, the constant attention to the technological developments of the market and the expertise of our R&D laboratories in developing customized solutions make Chiorino the ideal partner for OEMs and endusers of the textile sector all over the world.









## Printing blankets for textile printing

Chiorino printing blankets have been developed to fulfill technical and economical requirements according to latest market trends.

The Chiorino special thermoplastic polyurethane cover layer is a breakthrough in printing blanket innovation, combining precision, high chemical & temperature resistance and excellent compressibility to achieve optimum printing results and long service life.

- > DIGITAL PRINTING
- > ROTARY PRINTING
- > FLAT-BED PRINTING

#### Benefits

- · Excellent printing accuracy
- · Highest working reliability
- Excellent resistance to inks and chemicals
- · Long service life
- · Easy and fast on-site installation
- Increased productivity
- Cost saving

## **Conveyor and process belts**

#### Nonwoven and diapers

Chiorino polyurethane belts for nonwoven production are developed in close co-operation with OEMs and endusers and meet the increasingly growing demands for light-weighted, fast and mechanically performing machines.

- > CROSS-LAPPERS
- > DIAPERS PRODUCTION

#### **Benefits**

- · High conductivity
- · Suitable for high speeds
- · Excellent evenness
- · Excellent mechanical resistance
- · High resistance to oils, greases and chemicals
- · Long service life



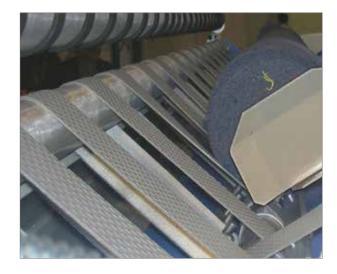
#### Finishing, cutting and packaging

Chiorino wide offer meets belt demand for any kind of application.

- > FABRIC INSPECTION
- > AUTOMATIC CUTTING
- > PACKAGING

#### Benefits

- · Asolute conveying precision
- · Low noise
- · No damage to fabrics
- · Optimal friction coefficient
- · High cut resistance
- $\cdot \ \text{Air permeable} \\$
- · Long service life



#### **Industrial laundries**

Chiorino supplies first equipment belts to the leading manufacturer of industrial laundries.

The wide range of Chiorino belts satisfy all the requirements for belts with textile carcass and for FAST JOINT elastic belts which ensure an easy and quick installation on site.

Chiorino supplies belts with high precision perforations.

#### Benefits

- · High resistance to wear
- · Total conveying uniformity
- · Low noise
- · Excellent drag
- No damage to textiles
- Easy and quick installation of Fast Joint belts
- · Long service life



## **Printing blankets - Conveyor belts Production program**

Code	Туре	Conveying surface coating		Textile carcass	Perm. antistatic	Total thickness	Min. diameter (1)	Pull for 1% elong. (2)	Max. admiss. pull	resis	erature tance 3)	Coeff. of friction (4)	Max. produc. width	
		Material	Colour			mm	mm	N/mm	N/mm	min. °C	max.		mm	
NA1386	PB-215	TPU	•	PET	✓	2.15	80	15	20	-20	100	LF	2100	
NA1390	PB-265	TPU	•	PET	✓	2.65	100	15	20	-20	100	LF	2100	
NA1392	PB-265 SP	TPU	•	PET	✓	2.65	100	15	20	-20	100	LF	3500	
NA96	EL2-U10 FL	TPU	•		✓	1.00	10	2	2	-20	60	MF	2000	
NA97	EL3-U15 FL	TPU	•		✓	1.50	10	3	3	-20	60	MF	2000	
NA405	EL4-U20 FH	TPU	•			2.10	10	4	4	-20	60	MF	2000	
NA899	EL4-U20 HP blue	TPU	•			2.00	10	4	4	-30	60	MF	2000	
NA99	1M6 U0-U5 FL	TPU	•	PET	✓	1.00	10	6	6	-20	100	MF	2000	
NA1255	2M10 U0-U2 N HC SP	TPU	•	PET	✓	1.20	4	10	10	-20	100	LF	3600	
NA394	2M12 U0-V-U0 GR	Fabric with TPU impregn.	•	PET	✓	1.70	40	12	24	-10	60	LF	3000	
NA1289	2M12 U0-U2 SP	TPU	•	PET	✓	1.50	6	8	16	-20	100	MF	3600	
NA1128	2M12 U0-U17	TPU	•	PET	✓	3.40	80	12	24	-20	100	LF	2000	
NA538	3M8 U0-U3	TPU	•	PET	✓	2.20	60	10	20	-20	100	LF	2100	
NA509	1M6 U0-V3 A N	PVC	•	PET	✓	0.85	20	6	6	-10	60	LF	3500	
NA281	2T5 0-V-0	PET	0	PET	✓	1.60	20	5	10	-10	60	LF	2000	
NA49	2MT5 U0-V3 N	PVC	•	PET	✓	1.80	20	6	12	-10	60	LF	3000	
NA606	2MT5 U0-V3 SM N	PVC	•	PET	✓	1.90	20	6	12	-10	60	LF	2000	
NA91	2M8 U0-V-U0	Fabric with TPU impregn.	0	PET	✓	1.50	30	8	16	-10	60	LF	3000	
NA30	2M8 U0-V5 A	PVC	•	PET	✓	2.00	30	8	16	-10	60	MF	3500	
NA31	2M8 U0-V5 FM	PVC	•	PET	✓	2.10	30	8	16	-10	60	MF	3000	
NA189	2M8 U0-V5 FM N	PVC	•	PET	✓	2.10	30	8	16	-10	60	HF	3000	
NA942	2M8 U0-V5 PS GR	PVC	•	PET	✓	2.30	30	8	16	-10	60	HF	500	
NA220	2M8 U0-V5 RT GR	PVC	•	PET	✓	2.20	30	8	16	-10	60	HF	2000	
NA32	2M8 U0-V17 GP	PVC	•	PET	✓	5.20	50	8	16	-10	60	HF	2000	
NA33	2M12 U0-V8 RT	PVC	•	PET	✓	2.30	40	12	24	-10	60	HF	2000	
NA258	2M12 U0-V10 RT	PVC	•	PET	✓	2.60	50	12	24	-10	60	HF	2000	
NA40	2T12 U0-V10	PVC	•	PET	✓	2.40	40	12	24	-10	60	HF	2000	
NA242	2M12 U0-V15 GPL N	PVC	•	PET	✓	3.80	60	12	24	-10	60	HF	2000	
NA35	2M12 U0-V20 GP	PVC	•	PET	✓	5.50	50	12	24	-10	60	HF	2000	
NA42	3T18 U0-V15	PVC	•	PET	✓	4.20	100	18	36	-10	60	MF	3000	
NA118	2M8 U0-U-G10 FH	Elastomer	•	PET	✓	2.30	50	8	16	-20	100	HF	1800	
NA1135	2T12 U0-U-G10 HS FH	Elastomer	•	PET	✓	2.20	50	12	24	-20	100	HF	1800	
NA224	SILON 25 W	PET	0	PET		2.50	30	10	10	-20	100	LF	2000	
NA225	SILON 25 HC	PET	•	PET	✓	2.50	30	10	10	-20	100	LF	2000	
NA305	SILON 40 HC	PET	•	PET	✓	4.00	50	10	10	-20	100	LF	2000	

<sup>(1)</sup> Minimum roller diameter is dependent on the joint recommended by Chiorino.

<sup>(2)</sup> Elastic belts "EL": pull for 8% elongation.

<sup>(3)</sup> Use of the belt with limit values may reduce its life.

<sup>(4)</sup> Conveying surface coefficient of friction:  $\bf LF$  low,  $\bf MF$  medium,  $\bf HF$  high.

< < Textile printing	Nonwoven	Fabric inspection	Automatic cutting	Packaging	Industrial laundries
✓					
✓					
✓					
					✓
					<b>√ √</b>
					✓
				✓	
				<b>√</b>	
	✓				
				<b>√</b>	
	✓			✓	
			✓		
✓				✓	
	✓				
					✓
		<b>✓</b>		✓	
		✓			
				4 4 4 4 4	
		✓		✓	
	✓			✓	
		✓		✓	
					<b>✓</b>
					✓
		✓		✓	
	<b>√</b>			✓ ✓	
	✓			✓	
		✓			
		✓		✓	
		✓		✓	
		✓			
					✓
					<b>√</b>
					✓
			✓	✓	
			✓	✓	

#### **EXPLANATION OF TYPE DESIGNATION**

#### 2 Number of plies

#### М Textile carcass

#### 8 Pull for 1% elongation (N/mm)

#### U Driving surface coating

- 0 Thickness (mm/10)
- U Possible interply
- G Conveying surface coating
- 10 Thickness (mm/10)
- FΗ Surface texture

#### Elastic belt without textile carcass EL

- 4 Pull for 8% elongation (N/mm)
- U Material
- 20 Thickness (mm/10)
- FΗ Surface texture

#### SILON Non-woven polyester (PET)

- 25 Thickness (mm/10)
- HC Other characteristics

#### **TEXTILE CARCASS**

- М Rigid polyester
- ΜT Combined polyester
- Т Flexible polyester

#### **COATING AND INTERPLY MATERIALS**

- G Elastomer
- S Silicone
- U TPU polyurethane
- Polyvinyl chloride (PVC)

#### OTHER CHARACTERISTICS

- Permanent antistatic (UNI EN 21179) Α
- GR Grey colour
- HC Static conductivity (ISO 284)
- HP® product system HP
- High performance elastomer HS® HS
- Black colour N
- PB Printing Blanket
- SM Super matt
- SP Production width up to 3500/3600 mm
- W White colour

#### SURFACE TEXTURE

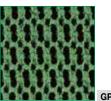


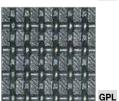




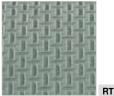


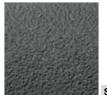












## Belts for tangential drives Spindle tapes





#### **Belts for tangential drives**

CHIORINO produces a wide range of belts for tangential drives able to meet the requirements of the most recent machinery for any application:

- > SPINNING MACHINES
- > OPEN-END
- > TEXTURIZING MACHINES

Thermoplastic belts with CHIO-TPE intermediate layer

- · Reduced energy consumption
- · High temperature resistance
- · Reliable FASTJOINT

Polyamide belts with 145<sup>®</sup> elastomer cover

- · High abrasion resistance
- · Excellent resilience
- · Long service life



The CHIORINO tapes are suitable to work at high speed on small diameters spindles, without any dimensional alteration, offering many competitive advantages:

- · Energy saving
- Excellent flexibility
- · High chemical-physical-mechanical resistances
- · Low noise
- · Uniformity of yarn count
- · No dust accumulation on edges
- · Long service life

The thermoplastic ST06 type can be fitted on site with the CHIORINO FAST JOINT systems and equipment.



## **Production program**

Code	Type	Top and	Тор	Traction	Perm.	Total	Min.	K1%	Tempe	erature											
		driving	colour	core	antist.	thickn.	diam.(1)	rel.	resist	tance							aru		ē		
		surface											_	p	yarn	+	be 7		cleane	itting	
									min	may		ame	ning	i i	S	ilamer	textur	ing	ead c	조	
									min.	max.	ding	aw fr	spir	ds 6	O Spi	iii o	`>	veric	erhe	rcular	
						mm	mm	N/mm	°C	°C	g	- Le	핑	듄	Ĕ	Ĕ	Dra	Š	ð	ğ	

#### Thermoplastic belts with CHIO-TPE intermediate layer

T-A Ar	-A Aramid																		
CG256	T60/30A	Elastomer	•	Aramid	✓	3.00	80	60	-20	80					✓				
T-E Po	r-E Polyester																		
CG325	T25/20E	Elastomer	•	Polyester	✓	2.00	25	15	-20	80	✓	✓		✓					
CG331	T25/25E	"	•	"	✓	2.50	40	15	-20	80	✓	✓	✓	✓		✓		✓	
CG329	T40/25E	"	•	"	✓	2.50	50	19	-20	80			✓	✓		1		1	
CG332	T40/30E	"	•	"	✓	3.00	50	19	-20	80				✓					
CG328	T55/30E	"	•	"	✓	3.00	50	21	-20	80				✓	✓		✓		

#### Polyamide belts with **///**5 elastomer cover

CG334	T0 HS	HS® Elastomer	•	Polyamide	✓	1.40	20	2	-20	100										✓
CG335	T1 HS	"	•	"	✓	1.50	25	5	-20	100										1
CG341	T1R HS	"	•	"	✓	2.10	25	5	-20	100	✓					✓				✓
CG336	T2 HS	"	•	"	✓	2.35	60	8	-20	100		✓				✓		✓	✓	1
CG342	T2R HS	"	•	"	✓	3.00	60	8	-20	100						✓			✓	1
CG337	T3 HS	"	•	"	✓	2.60	100	11	-20	100	✓	✓	✓			✓		✓		
CG343	T3R HS	"	•	33	✓	3.20	100	11	-20	100				✓		✓				
CG338	T4 HS	"	•	"	✓	3.10	150	12.5	-20	100	✓			✓	✓		✓			
CG344	T4R HS	"	•	"	✓	3.90	150	12.5	-20	100				✓	✓		✓			
CG345	T4-15 HS	"	•	"	✓	3.10	150	15	-20	100	✓			✓	✓		✓			
CG339	T6 HS	"	•	"	✓	3.50	200	18	-20	100				✓			✓			

(1) The diameter values listed here are dependent upon the running speed. The data in this chart are valid under normal environmental conditions and are subject to change without notice.

Code	Туре	To	p surface		Traction	Drivi	ng surface		Perm.	Thickness	Min.	Pull	Max.	Tempe	erature	
					core				antist.		diam. (1)	for 1%	adm.	resist	tance	
			ı	ı							(1)	elong.	puli			
		Material	Colour	Coeff.		Material	Colour	Coeff.						min.	max.	
				friction				friction						۰,0	۰.	
				on steel				on steel		mm	mm	N/mm	N/mm	°C	°C	

#### Thermoplastic spindle tape Polyester TPU impregn. fabric NA1150 **ST06** 0.2

#### Spindle tapes with polyamide traction core

NA140	CNG	Elastomer	•	-	Polyamide	Polyamide	•	0.2	✓	0.70	20	2	4	-20	100
NA145	CNPG	u	•	-	cc cc	ш	•	0.2	✓	1.00	20	2	4	0	100

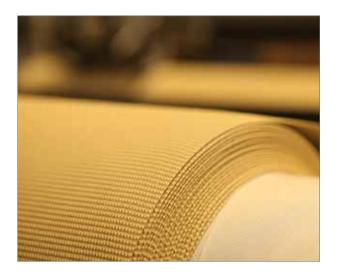
0.60

10

Fast Joint

100

## TEXGUM® Roller coverings



CHIORINO produces a wide range of TEXGUM® roller coverings designed to increase the coefficient of friction of rollers, suitable for any type of fabric, including the thinnest, and for any application in the weaving and finishing industry.

The CHIORINO roller coverings are fully-cycle produced with elastomers designed by the R&D Labs to meet specific requirements.

The comprehensive range offers technical qualities such as:

- High quality textile carcass with very good dimensional stability even for wet processing
- · High wear resistant covers
- · Excellent chemical resistance
- High constant quality due to the fully automated cycle of production control
- · Long service life



#### **Characteristics**

- **Textile carcass:** polyester fabric, except for the FG types (fiberglass), FLO (non woven).
- Self-adhesive version (/A): can be supplied for all types, except for SI0-FG. SI2-FG.
- Roll's width: available in 50 70 mm. Other widths upon request.

#### **Recommendations for fitting**

Clean rollers thoroughly by means of non oily solvent. To wrap the roller covering spiral-wise, cut the end of the covering aslant by a length equal to the circumference of the roller. Apply the adhesive first to the roller and then to the Texgum covering and wrap the latter while it is still slightly tacky. The silicone adhesive must be applied to the roller only, taking care to wrap the covering on the roller immediately. Then fix the ends of the covering by means of an adhesive tape. Wait for 8 hours before use.



- Texcol: for all types, except SI0-FG.
- Silicone: for SI0-FG.



## **Production program**

Code	Туре	C	overing		Thickness	Weight		erature stance	Rolls' length
		Material	Colour	Hardness Sh.A	mm	Kg/m²	min. °C	max. °C	m
TX84	NG0		•	50	1.50	1.60	0	100	115
TX11	NG3		•	50	2.00	2.20	0	100	100
TX14	NG5	Natural	•	50	1.90	2.10	0	100	100
TX16	NG7	elastomer	•	50	1.70	1.90	0	100	115
TX17	NG7-S		•	50	2.50	2.60	0	100	115
TX166	NG8		•	55	2.00	2.00	0	100	100
TX36	SG0		•	55	1.80	2.10	-10	120	115
TX38	SG0-D		•	75	2.30	2.10	-10	120	115
TX78	SG0-E		•	50	2.70	2.20	-10	120	115
TX170	SG0-E nc		•	50	2.70	2.20	-10	120	115
TX99	SG0-M		•	50	2.20	2.30	-10	120	115
TX40	SG0-S		•	55	2.50	2.60	-10	120	115
TX42	SG1		•	55	2.00	2.60	-10	120	115
TX39	SG1-E		•	40	3.00	2.30	-10	120	115
TX45	SG3		•	65	2.00	2.20	-10	120	100
TX48	SG4	Synthetic	•	50	4.20	2.90	-10	120	100
TX51	SG5	elastomer	•	65	2.00	1.80	-10	120	100
TX52	SG6		•	65	2.00	2.30	-10	120	115
TX55	SG7		0	65	2.00	2.20	-10	120	115
TX58	SG7 gr		•	65	2.00	2.20	-10	120	115
TX59	SG7-H		•	65	2.00	2.20	-10	120	115
TX61	SG7-L		0	65	1.70	2.00	-10	120	115
TX75	SG7-M		•	50	1.90	1.30	-10	120	115
TX63	SG7-S		0	65	2.50	2.90	-10	120	115
TX168	SG8		•	60	2.00	2.10	-10	120	100
TX165	SG8 HX		•	50	2.50	2.10	-10	120	100
TX20	PV0		0	45	1.80	2.00	0	60	115
TX27	PV0 ve		•	45	1.80	2.00	0	60	115
TX28	PV5		0	45	2.30	2.40	0	60	100
TX30	PV5 ve	PVC	•	45	2.30	2.40	0	60	115
TX31	PV6	1 00	0	45	1.90	2.00	0	60	115
TX72	PV6 ve		•	45	1.90	2.00	0	60	115
TX35	PV7		0	45	1.90	2.00	0	60	115
TX73	PV7 ve		•	45	1.90	2.00	0	60	115
TX120	SI0		0	50	1.10	1.00	-20	160	115
TX104	SI0-S		0	50	2.00	2.10	-20	160	115
TX67	SI0-FG	Silicone	0	50	1.40	1.30	-50	200	115
TX68	SI2-FG		0	50	1.50	1.40	-50	200	115
TX156	SI1 az		•	45	1.60	1.70	-20	150	115
TX94	NP0/A	Neoprene	•		3.50	0.70	-40	70	50
TX7	FLO	Velvet	•		2.40	0.80	-10	60	50

SG Type of coveringO Surface patternM Special execution

#### TYPE OF COVERING

FLO Velvet

NG Natural elastomer

NP NeoprenePV PVC

**SG** Synthetic elastomer

SI Silicone

#### **SURFACE PATTERNS**

0 Smooth

1 Light fabric

2 Medium fabric

3 Heavy fabric

4 Grip face

5 Pimpled

6 Fine sandblast

7 Medium sandblast

8 Heavy sandblast

#### **SPECIAL EXECUTIONS**

D High shore hardness

**E** Foam synthetic elastomer

**FG** Fiberglass textile carcass

H High performance

HX High performing

carboxylic elastomer

L Less rubber

M Soft

S Extra thickness

The data of this table have been formulated under normal environment conditions. They are subject to alteration without notice.

## **Condenser rub aprons**



Produced using highly specialized technology and materials, the CHIORINO condenser rub aprons are appreciated all over the world thanks to their unique qualities.

#### **Benefits**

- · Excellent rubbing
- · High carcass resistance
- · Very good resistance to spinning oils
- Long life: they work on any type of condenser and with any type of fibre.

### **Production program**

Туре	Colour	Characteristics and applications
Н	brownish red	For all fibres, also light-colour ones.
N	black	For heavy-duty. Not recommended for light colours. With extra-fine grooving can be used for fibres replacing absestos.
X874	brown	Special type, suitable where high resistance to wear is required.

#### **Finish**

#### **Ends**

- Standard: recessed by about 1 mm in the button area. Rivets embedded.
- · On request: not embedded rivets and recessed ends.

#### **Buttons**

- Standard: made of impact-proof polyamide with rounded edges (ø 18 mm, h 9 mm, pitch approx. 40 mm).
- On request: smaller buttons recommended for condenser with small diameter rollers (12 mm, h 6 mm, pitch approx 35 mm).

#### Grooving

- Standard: 20 grooves/dm with "b" groove type.
- On request: number of grooves and groove type according to the table on the right. Aprons with smooth finish can be supplied on request.

Grooves/am	Applications
16, 18 20, 22, 24	For all types

Type	Width (mm)	Depth (mm)
a	1,0	0,8
b	1,2	0,9
С	1,5	1,0
f	0,7	0,9

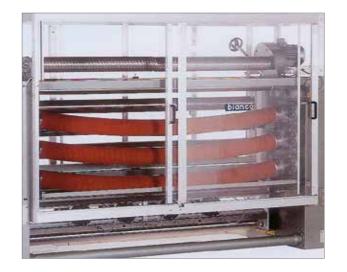
## **Coverings for expanding rollers**

Products featuring exclusive CHIORINO technology, they provide the basic component of the expanding units with rotating bending rollers.

They are particularly performing in the finishing machines and tissue control.

#### Benefits

- · Exceptionally high resistance to wear
- Maintenance of surface friction through time, even in presence of chemical and physical agents
- Different ranges of types and structures allowing use on any machine with any type of material.



### **Production program**

Туре	Colour	Hardness Sh.A		o. res.	Characteristics and applications
			min.	max	
AL/HF 65	brown	65	-10	+130	Excellent resistance to natural and synthetic oils and fats. Good resistance to alcohols.
AL/NP 60	white	60	-10	+100	Good resistance to ozone and alcohols. Good mechanical properties. Suitable for expanding rollers that handle plastic films and paper.
AL/NP 70	black	70	-10	+100	Good resistance to ozone and alcohols. Good mechanical properties. Suitable for expanding rollers that handle plastic films and paper.
AL/E 60	black	60	-35	+140	Good resistance to acids, alkalics and hydrogen peroxide even in highly concentrated solutions and at high temperatures.
AL/X 70	black	70	0	+130	Excellent resistance to abrasion. Used for expanding rollers that process paper and abrasive materials.
AL/Y 70	black	70	-10	+130	Excellent resistance to abrasion. Good mechanical properties. Used for expanding rollers.

#### **Finish**

Standard: all rubber.

"RF": cushion in wear-resistant rubber, with polyester cord reinforcement. Recommended for large rollers.

Finish: finely-ground smooth surface.

#### **HEADQUARTERS AND PRODUCTION PLANTS**

#### CHIORINO S.p.A.

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