mafdel

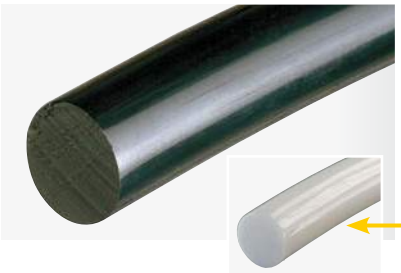
ø mm

		mafdel		2	3	4	5	6	7	8	9	9.5	10	12	12.5	15	18
Standard	Rough	**POLY/FLEX** Rough	85 ShA	●	●	●	●	●	●	●	●		●	●		●	●
		POLY/FLEX Rough	85 ShA		●	●	●	●		●			●	●			
	Smooth	**SOUPLEX**	85 ShA		●	●	●	●		●		●			●	●	●
		SOUPLEX	85 ShA		○	○	○	○		○							
		SOUPLEX Antistatic	85 ShA			●	●	●									
		DEL/FLEX	90 ShA	●	●	●	●	●	●	●		●			●	●	●
		DEL/FLEX	90 ShA		●	●	●	●		●							
		DEL/ROC	100 ShA 55 ShD			●	●	●		●		○	●				
	Frosted	**SOUPLEX** Frosted	85 ShA					●		●		●			●	●	●
		DEL/FLEX Frosted	90 ShA					●	●	●		●			●	●	●
		DEL/FLEX Frosted	90 ShA					●		●							
Reinforced	Smooth	**POLY/FLEX** Aramid Reinforced	85 ShA					◉		◉			◉	◉		◉	◉
		DEL/SAN Aramid Reinforced	95 ShA										◉		◉	◉	◉
		DEL/ROC Polyester Reinforced	100 ShA 55 ShD									◉	◉		◉	◉	◉
		DEL/ROC «DRW» Polyester Reinforced	63 ShD									◉		◉			
	Frosted	**POLY/FLEX** Aramid Reinforced - Frosted	85 ShA					◉		◉			◉	◉		◉	◉
		DEL/SAN Aramid Reinforced - Frosted	95 ShA										◉		◉	◉	◉
Tubular		**SOUPLEX** Tubular	85 ShA										◎				
		DEL/FLEX Tubular	90 ShA				◎	◎		◎			◎	◎		◎	

All our 6 to 18mm diameter round belts can be frosted.
Frosting improves belt sliding on its support and makes products accumulation easier.

Patent nb 9912595

DEL/ROC black



Reference	Diameter (mm)	Traction force (daN)	Pretension	Pulley diameter (mm) recommended	mini
DRRN04	4	6.3	2%	50	40
DRRN05	5	9	2%	60	50
DRRN06	6	13	2%	80	70
DRRN08	8	25	2%	100	90
DRRW9.5	9.5	35	2%	140	120
DRRN10	10	39	2%	160	140

Hardness **100 ShA/55 ShD**
Pretension **1 - 2%**
Temperature range **-30°C/+90°C**
Friction coefficient HDPE : **0.15 - 0.2** Steel : **0.35 - 0.4** Stainless steel : **0.5**
Roll length **30 m**

DEL/ROC ivory polyester reinforced

Reference	Diameter (mm)	Traction force (daN)	Pretension	Pulley diameter (mm) recommended	mini
DRRIAP9.5	9.5	54	2%	160	140
DRRIAP10	10	56	2%	180	160
DRRIAP12.5	12.5	98	2%	250	200
DRRIAP15	15	140	2%	300	250
DRRIAP18	18	200	2%	360	300

Hardness **100 ShA/55 ShD**
Pretension **1 - 2%**
Temperature range **-30°C/+90°C**
Friction coefficient HDPE : **0.15 - 0.2** Steel : **0.35 - 0.4** Stainless steel : **0.5**
Roll length **100 m**

DEL/ROC DRW ivory polyester reinforced

Reference	Diameter (mm)	Traction force (daN)	Pretension	Pulley diameter (mm) recommended	mini
DRWRIAP9.5	9.5	67	2%	180	160
DRWRIAP12	12	120	2%	260	220

Hardness **63 ShD**
Pretension **1 - 2%**
Temperature range **-30°C/+90°C**
Friction coefficient HDPE : **0.15 - 0.2** Steel : **0.35 - 0.4** Stainless steel : **0.5**
Roll length **100 m**

DEL/ROC blue steel reinforced*

Reference	Diameter (mm)	Traction force (daN)	Pretension	Pulley diameter (mm) recommended	mini
DRRBST9.5/1.8	9.5	166	-	250	
DRRBST9.5/2.36	9.5	200	-	270	

Hardness **100 ShA/55 ShD**
Pretension **0%**
Temperature range **-30°C/+90°C**
Friction coefficient HDPE : **0.15 - 0.2** Steel : **0.35 - 0.4** Stainless steel : **0.5**
Roll length **X m**

*Stainless steel reinforcement on request.

DEL/FLEX red

Hardness **90 ShA**
Pretension **3 - 6%**
Temperature range **-20°C/+70°C**
Friction coefficient HDPE : **0.25** Steel : **0.5** Stainless steel : **0.6**
Roll length **30 m**

Reference	Diameter (mm)	Traction force (daN)	Pretension	Pulley diameter (mm) recommended	mini
DFRR02	2	0.77	5%	20	12
DFRR03	3	1.7	5%	30	20
DFRR04	4	2.5	5%	40	30
DFRR05	5	4	5%	50	40
DFRR06	6	6.5	5%	60	50
DFRR07	7	9.6	5%	70	55
DFRR08	8	12	5%	80	65
DFRR9.5	9.5	17	5%	100	85
DFRR12.5	12.5	30	5%	140	120
DFRR15	15	43	5%	170	140
DFRR18	18	63	5%	220	180
*DFRR20	20	78	5%	280	250

*Manufactured on request depending on quantities.

DEL/FLEX blue

Hardness **90 ShA**
Pretension **3 - 6%**
Temperature range **-20°C/+70°C**
Friction coefficient HDPE : **0.25** Steel : **0.5** Stainless steel : **0.6**
Roll length **30 m**

Reference	Diameter (mm)	Traction force (daN)	Pretension	Pulley diameter (mm) recommended	mini
DFRB02	2	0.77	5%	20	12
DFRB03	3	1.7	5%	30	20
DFRB04	4	2.5	5%	40	30
DFRB05	5	4	5%	50	40
DFRB06	6	6.5	5%	60	50
DFRB08	8	12	5%	80	65

DEL/SAN blue Aramid reinforced

Hardness **95 ShA**
Pretension **see table**
Temperature range **-20°C/+70°C**
Friction coefficient HDPE : **0.2** Steel : **0.4** Stainless steel : **0.5**
Roll length **50 m**

Reference	Diameter (mm)	Traction force (daN)	Pretension	Pulley diameter (mm) recommended	mini
DSRBAR10	10	40	1.5%	140	120
DSRBAR12.5	12.5	65	1.5%	160	140
DSRBAR15	15	93	1.5%	220	180
DSRBAR18	18	125	1.5%	250	210

All our 6 to 18 mm diameter round belts can be frosted.

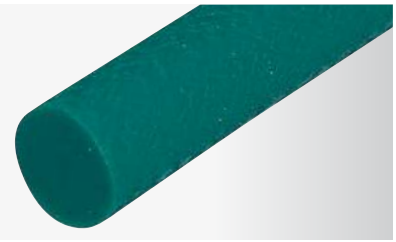
Frosting improves belt sliding on its support and makes products accumulation easier : :

- reduction of friction coeff on steel and stainless steel : **0.1**
- reduction of friction coeff on HDPE : **0.05**.

Reference : complete the belt reference with **DE**.

Patent nb 9912595

POLY/FLEX green rough



Hardness **85 ShA**
Pretension **5 - 8%**
Temperature range **-20°C/+60°C**
Friction coefficient HDPE : **0.25** Steel : **0.45** Stainless steel : **0.55**
Roll length ø 2 to 10 mm : **100 m** ø 12 to 18 mm : **50 m**

Reference	Diameter (mm)	Traction force (daN)	Pretension	Pulley diameter (mm) recommended	mini
PFRG02	2	0.47	8%	15	10
PFRG03	3	1	8%	20	15
PFRG04	4	1.9	8%	35	25
PFRG05	5	2.9	8%	40	30
PFRG06	6	4.2	8%	50	40
PFRG07	7	5.7	8%	60	50
PFRG08	8	7.5	8%	70	55
PFRG09	9	9.5	8%	80	65
PFRG10	10	11.8	8%	90	75
PFRG12	12	17	8%	100	90
PFRG15	15	26.5	8%	140	120
PFRG18	18	38.1	8%	190	150

POLY/FLEX blue rough

Hardness **85 ShA**
Pretension **5 - 8%**
Temperature range **-20°C/+60°C**
Friction coefficient HDPE : **0.25** Steel : **0.45** Stainless steel : **0.55**
Roll length **100 m**

Reference	Diameter (mm)	Traction force (daN)	Pretension	Pulley diameter (mm) recommended	mini
PFRB03	3	1	8%	20	15
PFRB04	4	1.9	8%	35	25
PFRB05	5	2.9	8%	40	30
PFRB06	6	4.2	8%	50	40
PFRB08	8	7.5	8%	70	55
PFRB10	10	11.8	8%	90	75
PFRB12	12	17	8%	100	90

POLY/FLEX green Aramid reinforced

Hardness **85 ShA**
Pretension **see table**
Temperature range **-20°C/+60°C**
Friction coefficient HDPE : **0.35** Steel : **0.6** Stainless steel : **0.7**
Roll length **30 m**

Reference	Diameter (mm)	Traction force (daN)	Pretension	Pulley diameter (mm) recommended	mini
PFRGAR06	6	7	0.5%	60	50
PFRGAR08	8	12	0.5%	90	75
PFRGAR10	10	23	1%	110	90
PFRGAR12	12	33	1.5%	130	110
PFRGAR15	15	50	1.5%	150	130
PFRGAR18	18	68	1.5%	220	180

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Frosting improves belt sliding on its support and makes products accumulation easier :

- reduction of friction coeff on steel and stainless steel : **0.1**
- reduction of friction coeff on HDPE : **0.05**.

Reference : complete the belt reference with **DE**.

Patent nb 9912595

SOUPLEX round belts

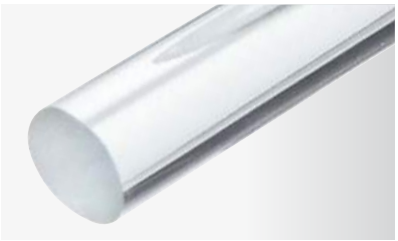
SOUPLEX brown

Hardness **85 ShA**
Pretension **5 - 8%**
Temperature range **-20°C/+60°C**
Friction coefficient HDPE : **0.35** Steel : **0.6** Stainless steel : **0.7**
Roll length **30 m**

Reference	Diameter (mm)	Traction force (daN)	Pretension	Pulley diameter (mm) recommended	mini
SXRM03	3	0.9	8%	20	15
SXRM04	4	1.5	8%	35	25
SXRM05	5	2.5	8%	40	30
SXRM06	6	4	8%	50	40
SXRM08	8	7	8%	70	55
SXRM9.5	9.5	10	8%	80	65
SXRM12.5	12.5	18	8%	110	95
SXRM15	15	25	8%	140	120
SXRM18	18	38	8%	200	150
*SXRM20	20	47	8%	240	190

*Manufactured on request depending on quantities.

SOUPLEX translucent

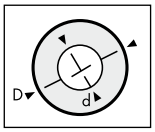


Reference	Diameter (mm)	Traction force (daN)	Pretension	Pulley diameter (mm) recommended	mini
SXRT03	3	0.9	8%	20	15
SXRT04	4	1.5	8%	35	25
SXRT05	5	2.5	8%	40	30
SXRT06	6	4	8%	50	40
SXRT08	8	7	8%	70	55

SOUPLEX black antistatic

Reference	Diameter (mm)	Traction force (daN)	Pretension	ø Pulley diameter (mm) recommended	mini
SXRN04AS	4	1.5	8%	45	35
SXRN05AS	5	2.5	8%	50	40
SXRN06AS	6	4	8%	60	50

tubular fastening belts



Fast on-site fastening without welding tools.

DEL/FLEX red tubular

Hardness **90 ShA**
Pretension **3 - 6%**
Temperature range **-20°C/+70°C**
Friction coefficient HDPE : **0.25** Steel : **0.5** Stainless steel : **0.6**
Roll length **30 m**

Reference	Diameter (D/d mm)	Traction force (daN)	Pretension	Pulley diameter (mm) recommended	mini
DFTR05	5/2.5	3	5%	60	50
DFTR06	6/2.5	5	5%	70	60
DFTR08	8/3	10	5%	90	70
DFTR10	10/4	16	5%	100	85
DFTR12	12/4	22	5%	140	125
DFTR15	15/5	35	5%	170	140
*DFTR18	18/5	50	5%	220	190

*Manufactured on request depending on quantities.

SOUPLEX brown tubular

Hardness **85 ShA**
Pretension **5 - 8%**
Temperature range **-20°C/+60°C**
Friction coefficient HDPE : **0.35** Steel : **0.6** Stainless steel : **0.7**
Roll length **30 m**

Reference	Diameter (D/d mm)	Traction force (daN)	Pretension	Pulley diameter (mm) recommended	mini
SXTM10	10/4	9	8%	80	70

Aluminium fasteners

N°	Belt dia.
4	5 & 6 mm
6	8 mm

N°	Belt dia.
7	10 & 12 mm
9	15 & 18 mm

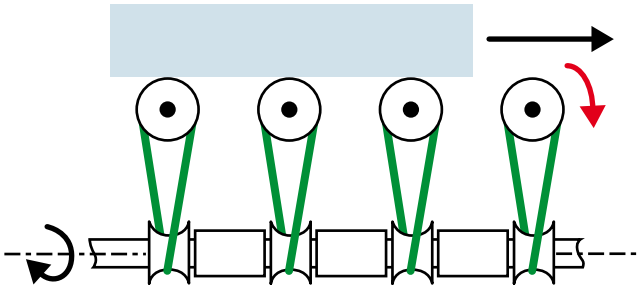
Supplied in pack of 10.

Manufacturing on demand of small round endless belts in small,medium or large series, in qualities

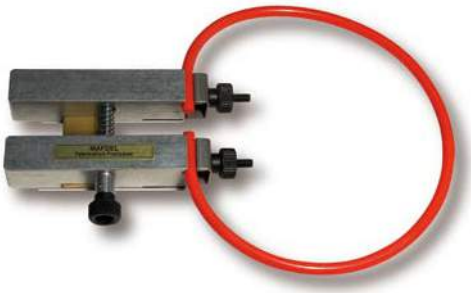
SOUPLEX POLY/FLEX DEL/FLEX DEL/ROC

- Wide choice in length.
- Possibility to produce moulded belts for very large series (consult us for moulds quotation).

rollers driven by semi-crossed round belts



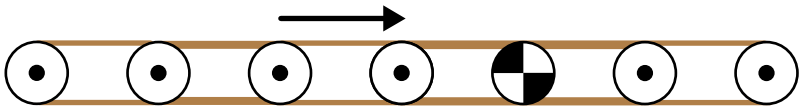
- Direct transmission from a perpendicular drive shaft to each roller with SOUPLEX, POLY/FLEX or DEL/FLEX round belts.
- Noiseless and maintenance-free system.



- Accumulation and full-load start possible, due to resistance of tensionned belts. Instant restart of rollers.
- Easy welding of belt on site with **J15 clamp**.
- We recommend to keep diabolos and rollers set in line.

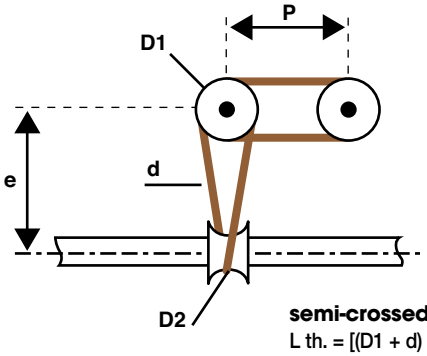
roller - to - roller driving

- Set of several rollers driven by round belts from a drive roller.



- It is recommended to drive a maximum of 6 rollers : 4 pulled and 2 pushed by the drive roller.
- Recommended minimum pretension : SOUPLEX or POLY/FLEX : 8%, DEL/FLEX : 6%.

belt length calculation



D1 : roller bottom groove diameter
D2 : diabolo bottom groove diameter
d : belt diameter
e : center distance
p : rollers step

roller-to-roller driving
L th. = (D1 + d) x pi + 2 x p
L belt = L th. - pretension

EXAMPLE :
SOUPLEX round belt dia. 5 mm

D1 = 38 mm
D2 = 28 mm
d = 5 mm
e = 120 mm
p = 100 mm

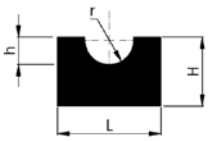
L th. = (38 + 5) x 3.14 + 2 x 100 = 335 mm
L belt = 335 - 8% = **308 mm**

semi-crossed belt driving
L th. = $[(D1 + d) + (D2 + d)] \times pi / 2 + 2 \times \sqrt{[(D1+d)^2/4 + e^2]}$
L belt = L th. - pretension

L th = $[(38+5)+(28+5)]x3.14/2+2\sqrt{[(38+5)^2 /4+120^2]}$ = 363 mm
L belt = 363 - 8% = **334 mm**

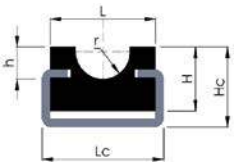
VIT/GLISS runner for round belts

Manufactured out of High Density Polyethylene (H.D.P.E), our VIT/GLISS runners will both perfectly guide your belts and improve the load capacity of each belt by reducing its friction on its runner.



Type	Ref.	Belt ø	L	H	r	h
R6	GR06	Ø 6	20	10	4	4
R8	GR08	Ø 8	20	12	5	5
R10	GR10	Ø 9.5 - 10	25	15	6	6
R12	GR12	Ø 12 - 12.5	30	20	7	8
R15	GR15	Ø 15	35	25	8.5	10
R18	GR18	Ø 18	40	25	10	12

Delivered in bars of 3 m.



Type	Réf.	Belt ø	L	H	r	h	H c	Lc
RC6	GRC06	Ø 6	20	15	4	4	18	20
RC8	GRC08	Ø 8	20	15	5	5	18	20
RC10	GRC10	Ø 9.5 - 10	20	15	6	6	20	20
RC12	GRC12	Ø 12 - 12.5	28	15	7	8	20	28
RC15	GRC15	Ø 15	33	20	8.5	10	25	38
RC18	GRC18	Ø 18	38	20	10	12	25	38

Delivered in bars of 3 m.

- **White or blue HDPE runners for food industry.**

- **C-shape stainless steel rail.**
- **Special runners following our customers schemes.**
- Consult us.

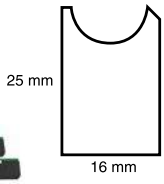
Advantages :

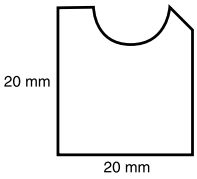
- Perfect guiding of the belts.
- Low friction coefficient.
- Excellent resistance against abrasion.
- Shock-proof.
- Good resistance against corrosion and many chemical agents.
- Maximum continuous working temperature : +70°C.
- Extreme temperature limits : -40°C to +100°C.

Attention :

Take care of the HDPE longitudinal dilatation : 2 mm per metre for a 10°C increase in temperature.

runners for curved conveyors





These runners can be bent without any special tool to be fixed on curved conveyors, thanks to their flexibility.

2 standard sizes for Ø 12 mm round belts :
25 x 16 mm and **20 x 20 mm**.

Recommended belts :
POLY/FLEX or any other frosted belt.