

DYSTRYBUTOR



**TECHNICAL**

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# Taśmy transportujące PU beztkaninowe



**mafdel**

# conveyor belts

mafdel		Bottom side	Top side	Embossing on top side	Maximum width (mm)	Thickness (mm)						
						1	1.5	2	2.5	3	4	5
<b>DEL/ROC</b>	100 ShA 55 ShD	Smooth	Smooth	No	650							
<b>DEL/ROC</b>	100 ShA 55 ShD	Smooth	Smooth	No	1000							
<b>DEL/ROC</b>	100 ShA 55 ShD	Diamond-embossed	Smooth	No	1000							
<b>DEL/FLEX</b>	93 ShA	Smooth	Smooth	Yes	650							
<b>DEL/FLEX</b>	93 ShA	Smooth	Smooth	Yes	650							
<b>DEL/FLEX</b>	93 ShA	Smooth	Smooth	Yes	1000							
<b>DEL/FLEX</b>	93 ShA	Diamond-embossed	Smooth	Yes	1000							
<b>DEL/FLEX</b>	93 ShA	Reinforcement ply	Smooth	Yes	1000							
<b>SOUPLEX</b>	85 ShA	Smooth	Smooth	Yes	650							
<b>SOUPLEX</b>	85 ShA	Smooth	Smooth	Yes	650							
<b>TOTALGRIP Surface</b>	70 ShA	Smooth	Smooth	Yes	400							
<b>EXTRAGRIP Surface</b>	60 ShA	Smooth	Smooth	Yes	400							
<b>Special PRIMAFLEX</b>	90 ShA	Smooth or Brushed	Smooth	Yes	400							

## DEL/ROC, DEL/FLEX and SOUPLEX conveyor belts with guides on demand



Possible embossings on DEL/FLEX and SOUPLEX conveyor and flat belts: non-slip studded, sawtooth, SG3 or diamond. Maximum width: 380 mm.



non-slip studded (PI)



sawtooth (US)

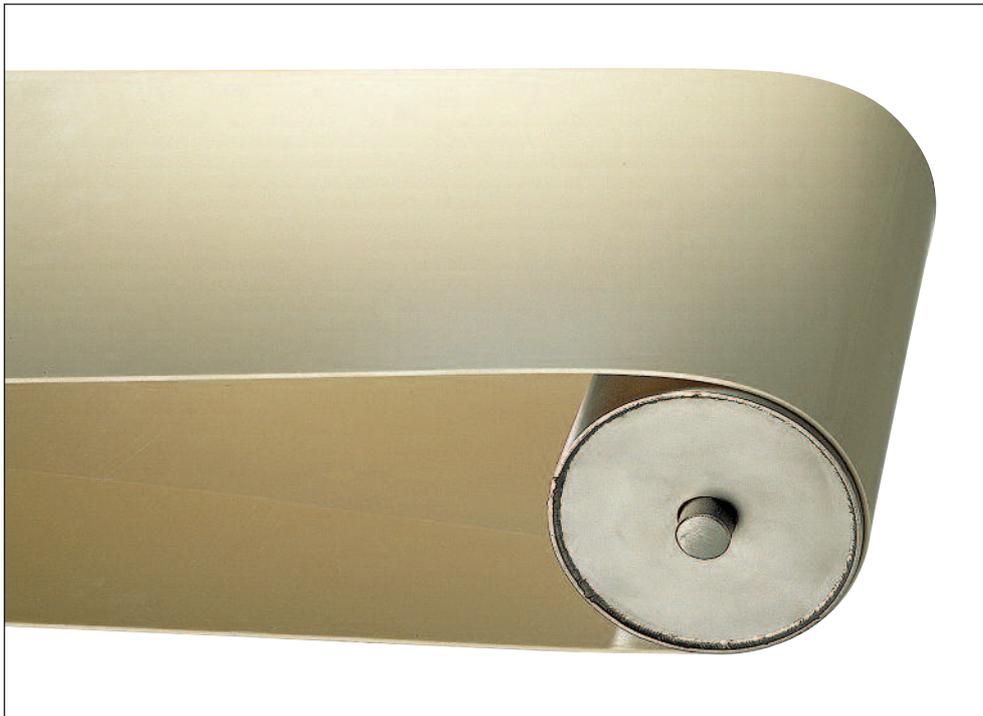


SG3 (SG)



diamond (LO)

## DEL/ROC ivory



### Characteristics

- **Food quality.**
- Easy to clean.
- Resistance to abrasion.
- Resistance to chemicals.
- Excellent traction force.
- Good sliding on supports.

### Applications

- Medium or heavy loads.
- Possible accumulation.
- Full-loaded start.
- Long spacings.

### Compatible welding processes

- With welding iron and clamp.
- With hot air gun.
- With fasteners.

**Guides, profiles, holes... on demand.**



## DEL/ROC ivory

Material	<b>polyester elastomer</b>
Colour	<b>ivory</b>
Bottom side	<b>smooth</b>
Top side	<b>smooth</b>
Hardness	<b>100 ShA - 55 ShD</b>
Traction rating	
at 0.5% of tension	<b>9 daN/cm<sup>2</sup> of section</b>
at 1% of tension	<b>18 daN/cm<sup>2</sup> of section</b>
at 1.5% of tension	<b>27 daN/cm<sup>2</sup> of section</b>
Installation tension	<b>0.5 to 2% depending on conditions</b>
Extreme temperatures	<b>-30°C/+90°C</b>
Friction coefficient on	
HDPE	<b>0.15 - 0.2</b>
Steel	<b>0.35 - 0.4</b>
Stainless steel	<b>0.5</b>



Reference					
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm	Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m <sup>2</sup> )
<b>DRPI1.5</b>	<b>DRBI1.5</b>	1.5	<b>650</b>	<b>30</b>	<b>1.8</b>
<b>DRPI2</b>	<b>DRBI2</b>	2	<b>650</b>	<b>40</b>	<b>2.4</b>
<b>DRPI2.5</b>	<b>DRBI2.5</b>	2.5	<b>650</b>	<b>60</b>	<b>3</b>
<b>DRPI3</b>	<b>DRBI3</b>	3	<b>650</b>	<b>80</b>	<b>3.6</b>
<b>DRPI4</b>	<b>DRBI4</b>	4	<b>650</b>	<b>160</b>	<b>4.8</b>
<b>DRPI5</b>	<b>DRBI5</b>	5	<b>650</b>	<b>200</b>	<b>6</b>

DEL/ROC belts with guide  
minimum drum ø(mm)



Belt thickness (mm)	DEL/ROC guide (100 ShA)					DEL/ROC cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	-	180	220	-	-	-	140	180	-	-
2.5	-	190	240	280	-	-	160	190	230	-
3	-	210	260	310	400	-	180	200	270	330
4	-	240	280	360	420	-	200	220	310	350
5	-	270	310	420	480	-	230	260	370	410

Belt thickness (mm)	V/FLEX guide (PVC 60 ShA)					V/FLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	70	80	100	-	-	-	70	90	-	-
2.5	80	100	110	130	-	-	90	100	110	-
3	110	130	140	150	200	-	110	120	130	150
4	160	180	200	210	220	-	160	180	190	200
5	200	210	220	240	250	-	200	210	230	240



## DEL/ROC blue



### Characteristics

- **Food quality.**
- Easy to clean.
- Resistance to abrasion.
- Resistance to chemicals.
- Excellent traction rating.
- Good sliding on supports.

### Applications

- Medium or heavy loads.
- Possible accumulation.
- Full-loaded start.
- Long spacings.

### Compatible welding processes

- With welding iron and clamp.
- With hot air gun.
- With fasteners.

**Guides, profiles, holes... on demand.**

### Smooth or **DIAMOND-EMBOSSED** bottom side

- Sliding improved on the belts' support in wet or fat conditions.
- Reduced traction efforts.



## DEL/ROC blue

Material	<b>polyester elastomer</b>
Colour	<b>blue</b>
Bottom side	<b>smooth or diamond-embossed</b>
Top side	<b>smooth</b>
Hardness	<b>100 ShA - 55 ShD</b>
Traction rating	
at 0.5% of tension	<b>9 daN/cm<sup>2</sup> of section</b>
at 1% of tension	<b>18 daN/cm<sup>2</sup> of section</b>
at 1.5% of tension	<b>27 daN/cm<sup>2</sup> of section</b>
Installation tension	<b>0.5 to 2% depending on conditions</b>
Extreme temperatures	<b>-30°C/+90°C</b>
Friction coefficient on	
HDPE	<b>0.15 - 0.2</b>
Steel	<b>0.35 - 0.4</b>
Stainless steel	<b>0.5</b>



Reference					
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm	Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m <sup>2</sup> )
<b>DRPB2</b>	<b>DRBB2</b>	 <b>2</b>	<b>1000</b>	<b>40</b>	<b>2.4</b>
<b>DRPB3</b>	<b>DRBB3</b>	 <b>3</b>	<b>1000</b>	<b>80</b>	<b>3.6</b>

### DEL/ROC belts with guide minimum drum ø(mm)



Belt thickness (mm)	DEL/ROC guide (100 ShA)					DEL/ROC cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
 2	-	180	220	-	-	-	140	180	-	-
 3	-	210	260	310	400	-	180	200	270	330

Belt thickness (mm)	V/FLEX guide (PVC 60 ShA)					V/FLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
 2	70	80	100	-	-	-	70	90	-	-
 3	110	130	140	150	200	-	110	120	130	150



## DEL/FLEX green



### Characteristics

- **Standard quality.**
- Easy to clean.
- Resistance to abrasion.
- Resistance to cuttings.
- Resistance to tear.
- Resistance to chemicals.
- Flexible.



### Applications

- Medium loads.
- Small drum Ø.
- Abrasive conditions.
- U-shape belts.

### Compatible welding processes

- With welding iron and clamp.
- With hot air gun.
- With heating press.
- With fasteners.

**Guides, profiles, holes... on demand.**

### standard embossings



non-slip studded (PI)



sawtooth (US)



SG3 (SG)

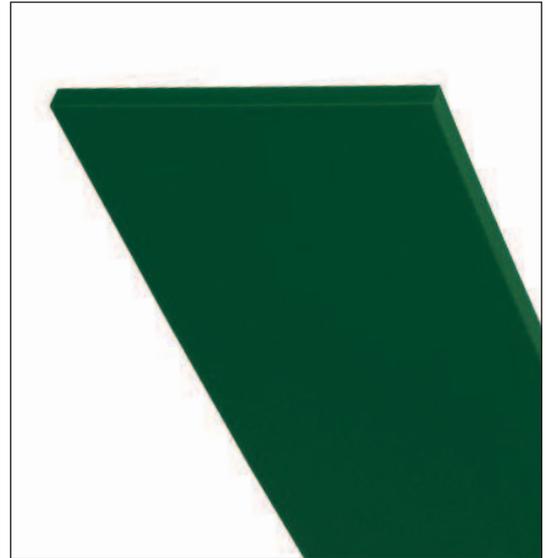


diamond (LO)

Maximum width: 380 mm.

## DEL/FLEX green

Material	<b>polyurethane</b>
Colour	<b>green</b>
Bottom side	<b>smooth</b>
Top side	<b>smooth</b>
Hardness	<b>93 ShA</b>
Traction rating	
at 1% of tension	<b>10 daN/cm<sup>2</sup> of section</b>
at 2% of tension	<b>15 daN/cm<sup>2</sup> of section</b>
at 3% of tension	<b>20 daN/cm<sup>2</sup> of section</b>
Installation tension	<b>2 to 4% depending on conditions</b>
Extreme temperatures	<b>-20°C/+70°C</b>
Friction coefficient on	
HDPE	<b>0.25</b>
Steel	<b>0.5</b>
Stainless steel	<b>0.6</b>



Reference					
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm	Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m <sup>2</sup> )
<b>DFPG1.5</b>	<b>DFBG1.5</b>	<b>1.5</b>	<b>650</b>	<b>20</b>	<b>1.8</b>
<b>DFPG2</b>	<b>DFBG2</b>	<b>2</b>	<b>650</b>	<b>30</b>	<b>2.5</b>
<b>DFPG3</b>	<b>DFBG3</b>	<b>3</b>	<b>650</b>	<b>70</b>	<b>3.75</b>
<b>DFPG4</b>	<b>DFBG4</b>	<b>4</b>	<b>650</b>	<b>100</b>	<b>5</b>
<b>DFPG5</b>	<b>DFBG5</b>	<b>5</b>	<b>650</b>	<b>140</b>	<b>6.25</b>

### DEL/ROC belts with guide minimum drum ø(mm)



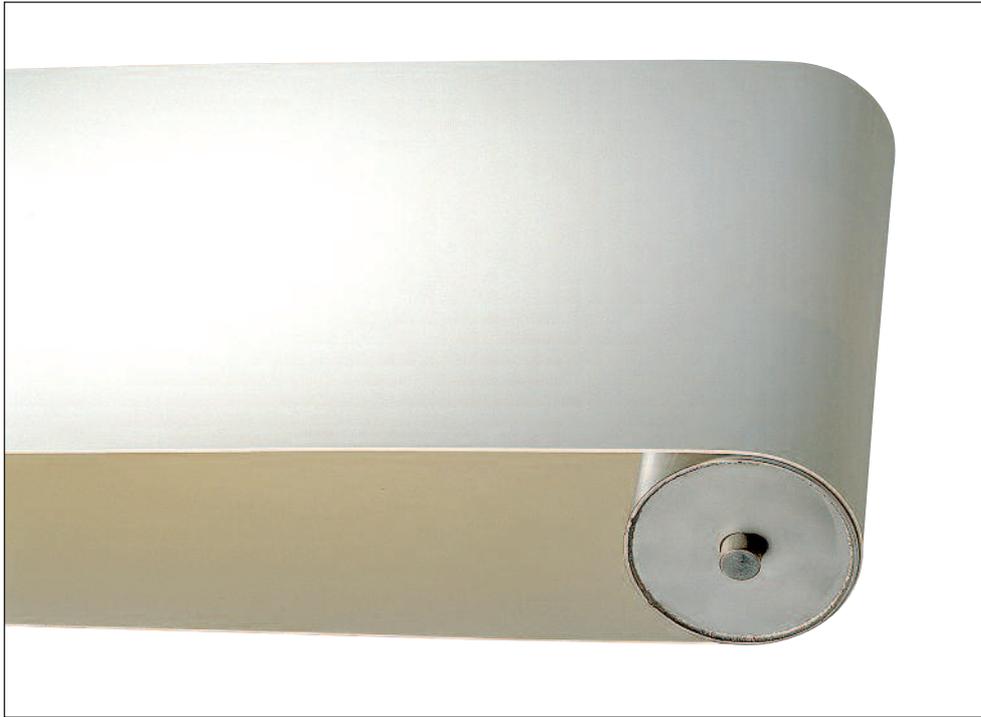
Belt thickness (mm)	<b>SOUPLEX guide (PU 85 ShA)</b>					<b>SOUPLEX cogged guide</b>				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	90	100	140	-	-	-	70	80	-	-
3	110	130	180	220	280	-	85	100	140	200
4	130	170	220	260	350	-	100	120	160	220
5	160	200	250	300	400	-	140	150	180	240

Belt thickness (mm)	<b>SUPERFLEX guide (PU 70 ShA)</b>					<b>SUPERFLEX cogged guide</b>				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	60	65	90	135	-	-	55	65	90	-
3	80	85	100	150	-	-	70	80	110	-
4	100	100	115	165	-	-	100	100	120	-
5	140	140	140	185	-	-	140	140	150	-



**SUPERFLEX 6 x 4 mm: consult us.**

## DEL/FLEX white



### Characteristics

- **Food quality.**
- Easy to clean.
- Resistance to abrasion.
- Resistance to cuttings.
- Resistance to tear.
- Resistance to chemicals.
- Flexible.

### Applications

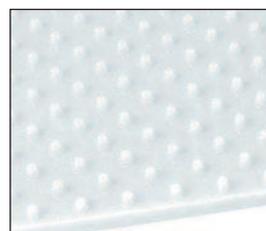
- Medium loads.
- Small drum Ø.
- Abrasive conditions.
- U-shape belts.

### Compatible welding processes

- With welding iron and clamp.
- With hot air gun.
- With heating press.
- With fasteners.

**Guides, profiles, holes... on demand.**

### standard embossings



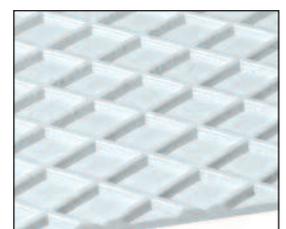
non-slip studded (PI)



sawtooth (US)



SG3 (SG)



diamond (LO)

Maximum width: 380 mm.

## DEL/FLEX white

Material	<b>polyurethane</b>
Colour	<b>white</b>
Bottom side	<b>smooth</b>
Top side	<b>smooth</b>
Hardness	<b>93 ShA</b>
Traction rating	
at 1% of tension	<b>10 daN/cm<sup>2</sup> of section</b>
at 2% of tension	<b>15 daN/cm<sup>2</sup> of section</b>
at 3% of tension	<b>20 daN/cm<sup>2</sup> of section</b>
Installation tension	<b>2 to 4% depending on conditions</b>
Extreme temperatures	<b>-20°C/+70°C</b>
Friction coefficient on	
HDPE	<b>0.25</b>
Steel	<b>0.5</b>
Stainless steel	<b>0.6</b>



Reference					
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm	Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m <sup>2</sup> )
<b>DFPW1.5</b>	<b>DFBW1.5</b>	<b>1.5</b>	<b>650</b>	<b>20</b>	<b>1.8</b>
<b>DFPW2</b>	<b>DFBW2</b>	<b>2</b>	<b>650</b>	<b>30</b>	<b>2.5</b>
<b>DFPW3</b>	<b>DFBW3</b>	<b>3</b>	<b>650</b>	<b>70</b>	<b>3.75</b>
<b>DFPW4</b>	<b>DFBW4</b>	<b>4</b>	<b>650</b>	<b>100</b>	<b>5</b>



**DEL/ROC** belts with guide  
minimum drum ø(mm)



Belt thickness (mm)	<b>SOUPLEX</b> guide (PU 85 ShA)					<b>SOUPLEX</b> cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	90	100	140	-	-	-	70	80	-	-
3	110	130	180	220	280	-	85	100	140	200
4	130	170	220	260	350	-	100	120	160	220

Belt thickness (mm)	<b>SUPERFLEX</b> guide (PU 70 ShA)					<b>SUPERFLEX</b> cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	60	65	90	135	-	-	55	65	90	-
3	80	85	100	150	-	-	70	80	110	-
4	100	100	115	165	-	-	100	100	120	-



**SUPERFLEX** 6 x 4 mm: consult us.

**DEL/FLEX blue**



**Characteristics**

- **Food quality.**
- Easy to clean.
- Resistance to abrasion.
- Resistance to cuttings.
- Resistance to tear.
- Resistance to chemicals.
- Flexible.

**Applications**

- Medium loads.
- Small drum Ø.
- Abrasive conditions.
- U-shape belts.

**Compatible welding processes**

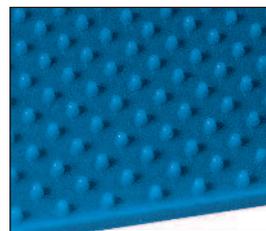
- With welding iron and clamp.
- With hot air gun.
- With heating press.
- With fasteners.

**Guides, profiles, holes... on demand.**

**Smooth or DIAMOND-EMBOSSED bottom side**

- Sliding improved on the belts' support in wet or fat conditions.
- Reduced traction efforts.

**standard embossings**



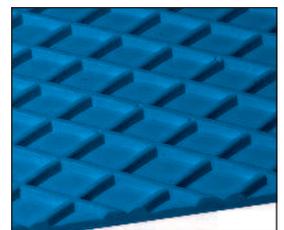
non-slip studded (PI)



sawtooth (US)



SG3 (SG)



diamond (LO)

Maximum width: 380 mm.

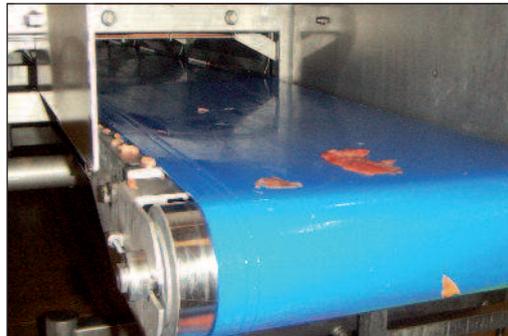


## DEL/FLEX blue

Material	<b>polyurethane</b>
Colour	<b>blue</b>
Bottom side	<b>smooth or diamond-embossed</b>
Top side	<b>smooth</b>
Hardness	<b>93 ShA</b>
Traction rating	
at 1% of tension	<b>10 daN/cm<sup>2</sup> of section</b>
at 2% of tension	<b>15 daN/cm<sup>2</sup> of section</b>
at 3% of tension	<b>20 daN/cm<sup>2</sup> of section</b>
Installation tension	<b>2 to 4% depending on conditions</b>
Extreme temperatures	<b>-20°C/+70°C</b>
Friction coefficient on	
HDPE	<b>0.25</b>
Steel	<b>0.5</b>
Stainless steel	<b>0.6</b>



Reference					
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm	Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m <sup>2</sup> )
<b>DFPB2</b>	<b>DFBB2</b>	 <b>2</b>	<b>1000</b>	<b>30</b>	<b>2.5</b>
<b>DFPB3</b>	<b>DFBB3</b>	 <b>3</b>	<b>1000</b>	<b>70</b>	<b>3.75</b>



**DEL/FLEX** belts with guide  
minimum drum ø(mm)

Belt thickness (mm)	 <b>SOUPLEX</b> guide (PU 85 ShA)					 <b>SOUPLEX</b> cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
 2	90	100	140	-	-	-	70	80	-	-
 3	110	130	180	220	280	-	85	100	140	200

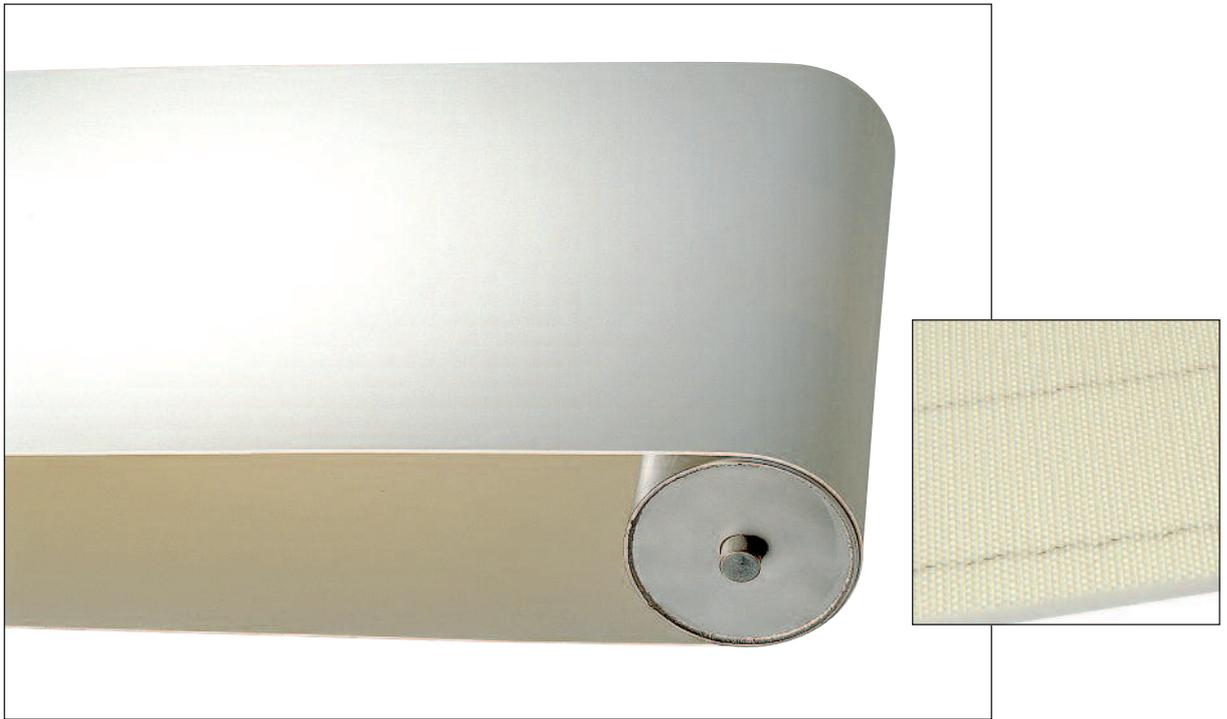
  

Belt thickness (mm)	 <b>SUPERFLEX</b> guide (PU 70 ShA)					 <b>SUPERFLEX</b> cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
 2	60	65	90	135	-	-	55	65	90	-
 3	80	85	100	150	-	-	70	80	110	-



**SUPERFLEX** 6 x 4 mm: consult us.

**DEL/FLEX white with reinforcement ply**



**Characteristics**

- **Food quality.**
- Low stretch.
- Good sliding on belt's support.
- Resistance to abrasion.
- Resistance to cuttings.
- Resistance to tear.
- Excellent traction rating.
- Flexible.

**Applications**

- Medium or heavy loads.
- Long spacing.
- Short tensioning system.

**Compatible welding processes**

- With welding iron and clamp.
- With hot air gun.
- With heating press.
- With fasteners.

**Guides, profiles, holes... on demand.**

**Bottom side with REINFORCEMENT ply**

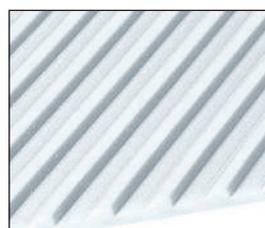
**standard embossings**



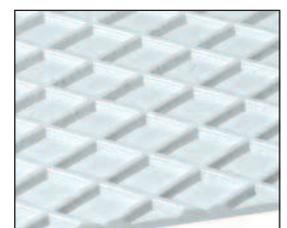
non-slip studded (PI)



sawtooth (US)



SG3 (SG)



diamond (LO)

Maximum width: 380 mm.

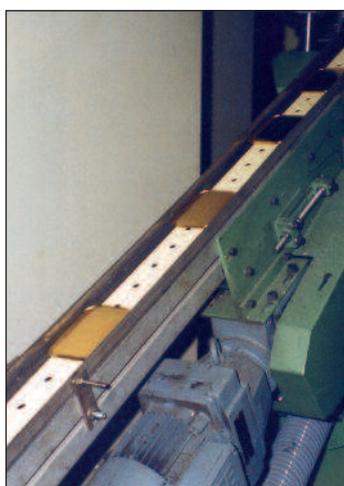


## DEL/FLEX white with reinforcement ply

Material	<b>polyurethane</b>
Colour	<b>white</b>
Bottom side	<b>polyester sheet</b>
Top side	<b>smooth</b>
Hardness	<b>93 ShA</b>
Traction rating	
at 1% of tension	<b>7 daN/cm of width</b>
at 3% of tension	<b>17,5 daN/cm of width</b>
Installation tension	<b>1 to 2% depending on conditions</b>
Extreme temperatures	<b>-20°C/+80°C</b>
Friction coefficient on	
HDPE	<b>0.25</b>
Steel	<b>0.35</b>
Stainless steel	<b>0.35</b>



Reference		Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m <sup>2</sup> )
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm				
<b>DFPW3RF</b>	<b>DFBW3RF</b>	<b>3</b>	<b>1000</b>	<b>80</b>	<b>3.6</b>



**DEL/FLEX** belts with reinforcement ply and guide  
minimum drum ø(mm)



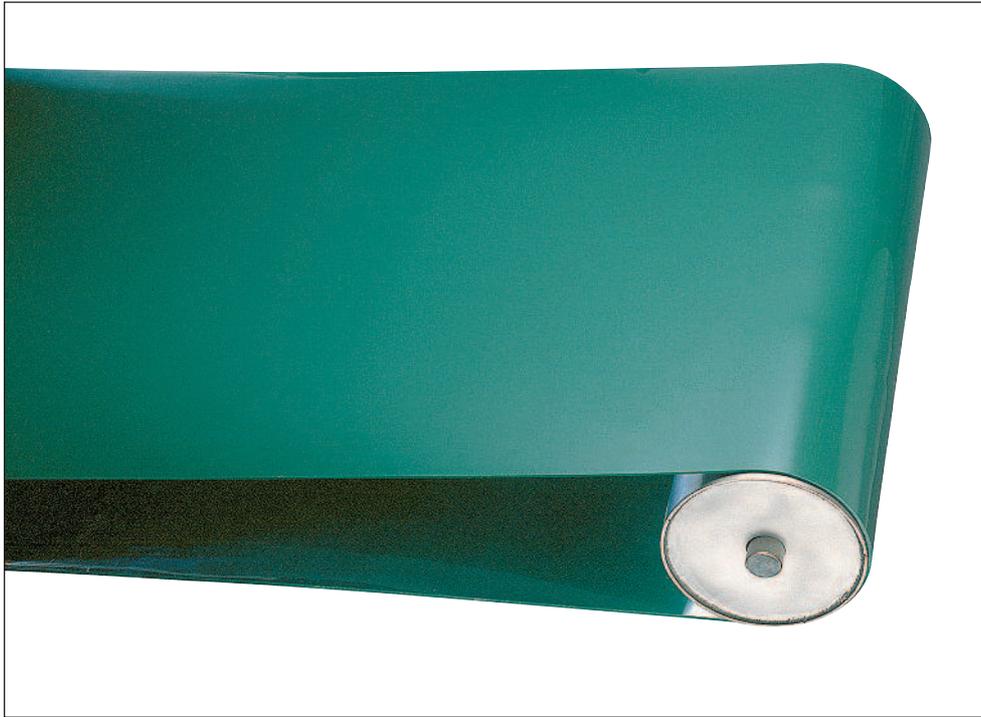
Belt thickness (mm)	SUPERFLEX guide (PU 70 ShA)					SUPERFLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
<b>3</b>	90	100	120	160	-	-	90	100	130	-

Belt thickness (mm)	V/FLEX guide (PVC 60 ShA)					V/FLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
<b>3</b>	80	90	100	120	200	-	80	80	100	-



**SOUPLEX green**



**Characteristics**

- **Standard quality.**
- Easy to clean.
- Resistance to abrasion.
- Resistance to cuttings.
- Resistance to tear.
- Resistance to chemicals.
- Grip.
- Very flexible.
- Stretchy.

**Applications**

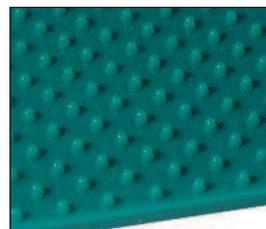
- Light load.
- Short spacing.
- Small drum Ø.

**Compatible welding processes**

- With welding iron and clamp.
- With heating press.
- With fasteners.

**Guides, profiles, holes... on demand.**

**standard embossings**



non-slip studded (PI)



sawtooth (US)



SG3 (SG)



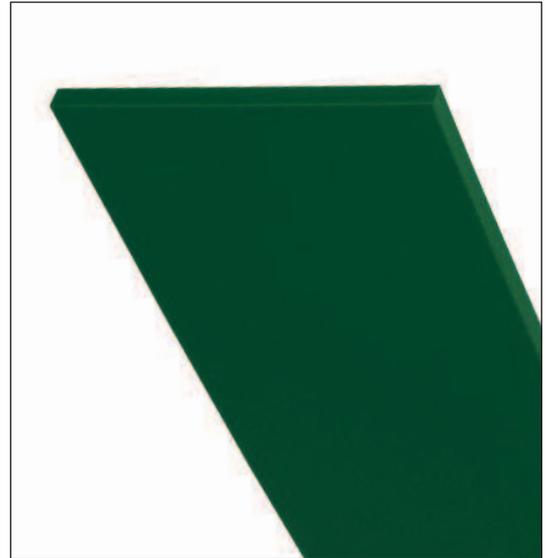
diamond (LO)

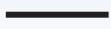
Maximum width: 380 mm.

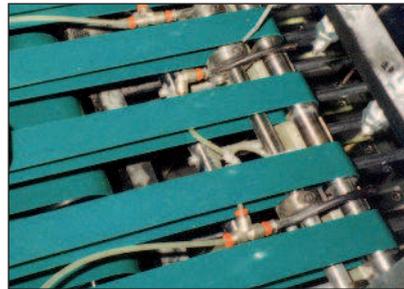


## SOUPLEX green

Material	<b>polyurethane</b>
Colour	<b>green</b>
Bottom side	<b>smooth</b>
Top side	<b>smooth</b>
Hardness	<b>85 ShA</b>
Traction rating	
at 2% of tension	<b>4 daN/cm<sup>2</sup> of section</b>
at 3% of tension	<b>6 daN/cm<sup>2</sup> of section</b>
at 4% of tension	<b>8 daN/cm<sup>2</sup> of section</b>
Installation tension	<b>3 to 5% depending on conditions</b>
Extreme temperatures	<b>-20°C/+60°C</b>
Friction coefficient on	
HDPE	<b>0.35</b>
Steel	<b>0.6</b>
Stainless steel	<b>0.7</b>



Reference					
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm	Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m <sup>2</sup> )
<b>SXPG2</b>	<b>SXBG2</b>	 <b>2</b>	<b>650</b>	<b>20</b>	<b>2.5</b>
<b>SXPG3</b>	<b>SXBG3</b>	 <b>3</b>	<b>650</b>	<b>40</b>	<b>3.75</b>
<b>SXPG4</b>	<b>SXBG4</b>	 <b>4</b>	<b>650</b>	<b>60</b>	<b>5</b>



SOUPLEX belts with guide  
minimum drum ø(mm)



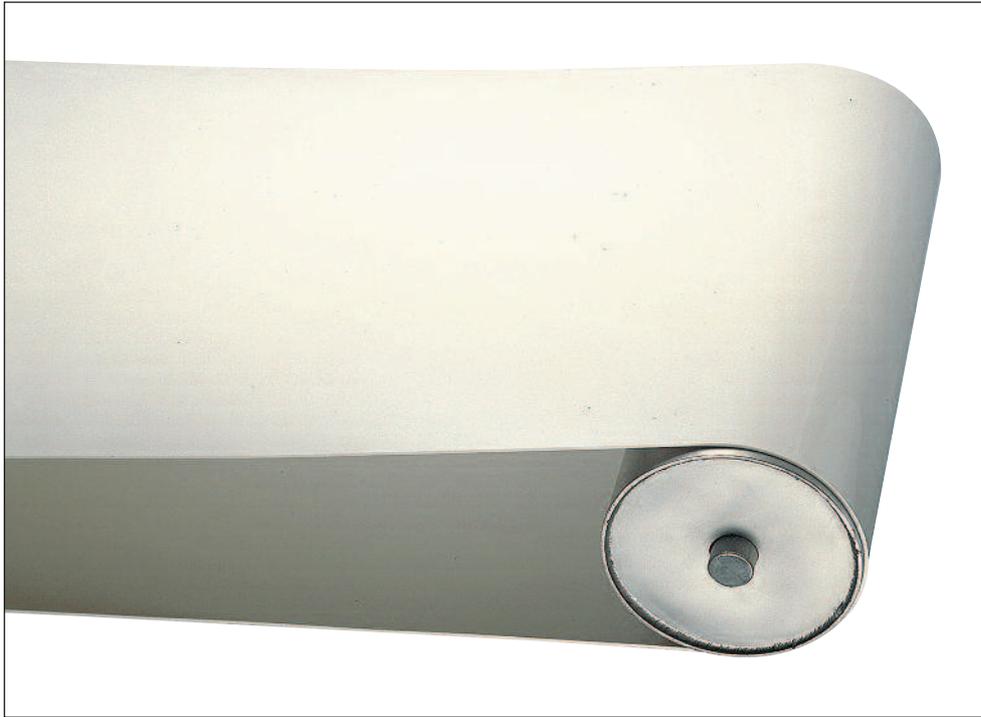
Belt thickness (mm)	 SOUPLEX guide (PU 85 ShA)					 SOUPLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
 2	80	90	130	-	-	-	55	65	-	-
 3	100	120	160	200	260	-	70	80	120	180
 4	120	140	190	220	280	-	85	100	140	200

Belt thickness (mm)	 SUPERFLEX guide (PU 70 ShA)					 SUPERFLEX cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
 2	40	60	80	-	-	-	40	55	-	-
 3	60	75	90	140	-	-	50	65	85	-
 4	80	90	110	160	-	-	70	80	100	-



SUPERFLEX 6 x 4 mm: consult us.

**SOUPLEX white**



**Characteristics**

- **Food quality.**
- Easy to clean.
- Resistance to abrasion.
- Resistance to cuttings.
- Resistance to tear.
- Resistance to chemicals.
- Grip.
- Very flexible.
- Stretchy.

**Applications**

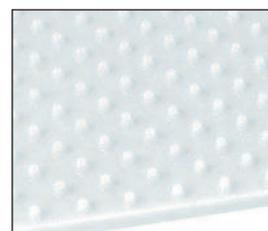
- Light load.
- Short spacing.
- Small drum Ø.

**Compatible welding processes**

- With welding iron and clamp.
- With heating press.
- With fasteners.

**Guides, profiles, holes... on demand.**

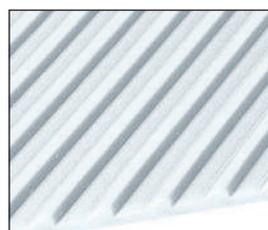
**standard embossings**



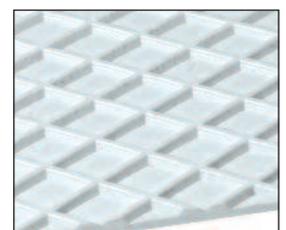
non-slip studded (PI)



sawtooth (US)



SG3 (SG)



diamond (LO)

Maximum width: 380 mm.

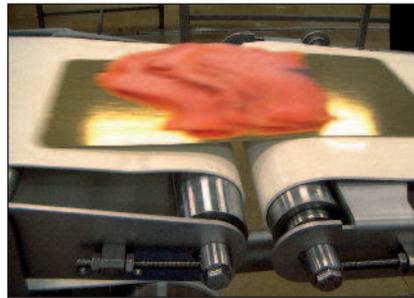


## SOUPLEX white

Material	<b>polyurethane</b>
Colour	<b>white</b>
Bottom side	<b>smooth</b>
Top side	<b>smooth</b>
Hardness	<b>85 ShA</b>
Traction rating	
at 2% of tension	<b>4 daN/cm<sup>2</sup> of section</b>
at 3% of tension	<b>6 daN/cm<sup>2</sup> of section</b>
at 4% of tension	<b>8 daN/cm<sup>2</sup> of section</b>
Installation tension	<b>3 to 5% depending on conditions</b>
Extreme temperatures	<b>-20°C/+60°C</b>
Friction coefficient on	
HDPE	<b>0.35</b>
Steel	<b>0.6</b>
Stainless steel	<b>0.7</b>



Reference					
Flat belt width < 100 mm	Conveyor belt width ≥ 100 mm	Belt thickness (mm)	Maximum width (mm)	Minimum drum ø (mm)	Weight (kg / m <sup>2</sup> )
<b>SXPW2</b>	<b>SXBW2</b>	<b>2</b>	<b>650</b>	<b>20</b>	<b>2.5</b>
<b>SXPW3</b>	<b>SXBW3</b>	<b>3</b>	<b>650</b>	<b>40</b>	<b>3.75</b>
<b>SXPW4</b>	<b>SXBW4</b>	<b>4</b>	<b>650</b>	<b>60</b>	<b>5</b>



**SOUPLEX** belts with guide  
minimum drum ø(mm)



Belt thickness (mm)	<b>SOUPLEX</b> guide (PU 85 ShA)					<b>SOUPLEX</b> cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	80	90	130	-	-	-	55	65	-	-
3	100	120	160	200	260	-	70	80	120	180
4	120	140	190	220	280	-	85	100	140	200

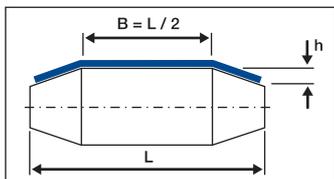
Belt thickness (mm)	<b>SUPERFLEX</b> guide (PU 70 ShA)					<b>SUPERFLEX</b> cogged guide				
	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14	8 x 5	10 x 6	13 x 8	17 x 11	22 x 14
2	40	60	80	-	-	-	40	55	-	-
3	60	75	90	140	-	-	50	65	85	-
4	80	90	110	160	-	-	70	80	100	-



**SUPERFLEX** 6 x 4 mm: consult us.

## conveyor belts driving

To center a conveyor belt, we recommend the use of rounded drums or drums with cone-shape ends.



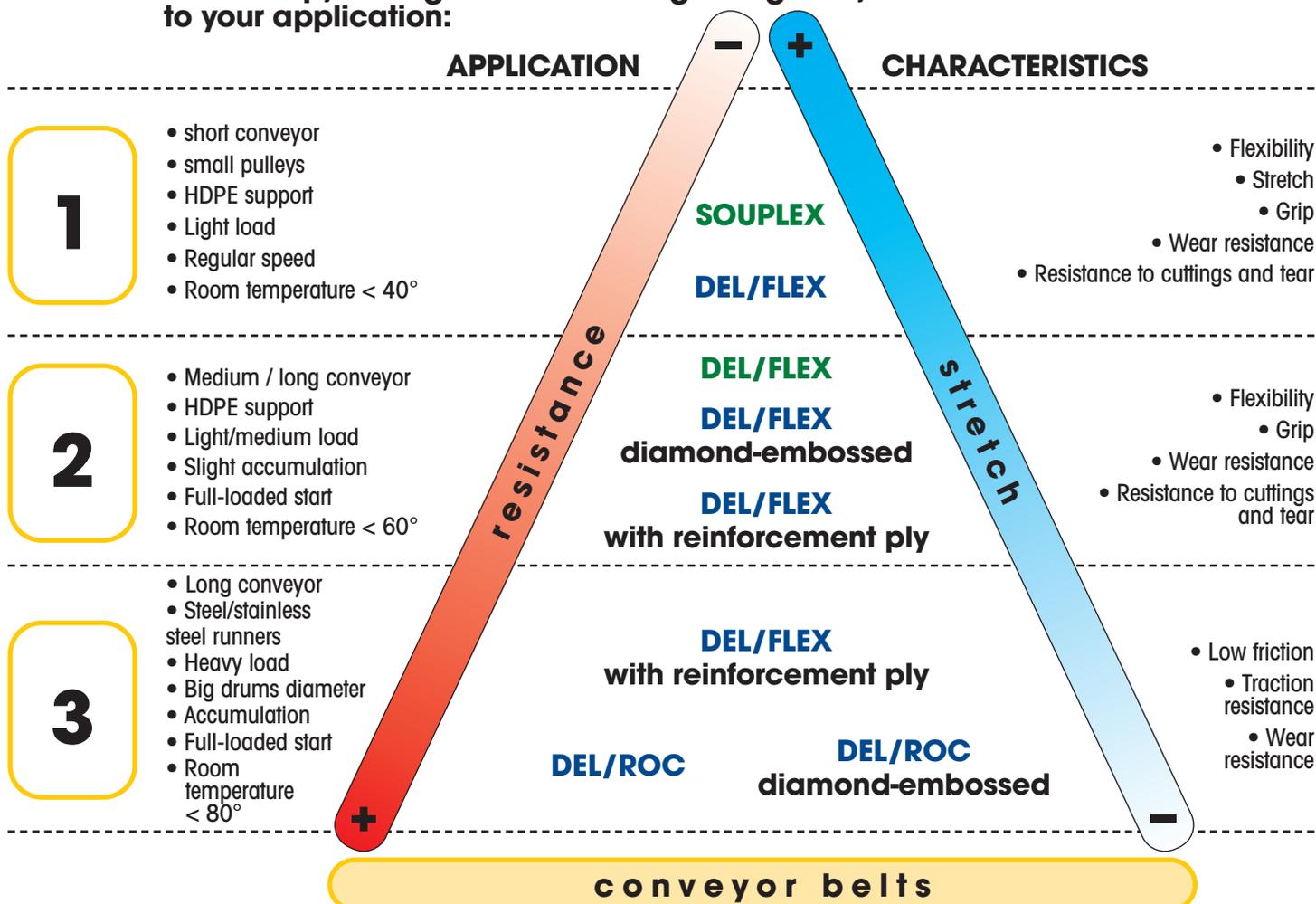
L	h
up to 200 mm	0,25 to 0,5 mm
200 mm to 500 mm	0,5 to 1 mm
500 mm to 1000 mm	1 to 1,5 mm

## choosing a conveyor belt

To choose the right belt, you need to know the characteristics of the conveyor, the working conditions and the conveyed products:

CONVEYOR	PRODUCT TRANSPORTED	WORKING CONDITIONS
length of the conveyor	maximum transported weight	continuous or stop-and-go driving
diameter of the pulleys	nature of the product	accumulation
Type of support	spreading of the weight along the conveyor	other efforts, pressure, etc...
length of the tensioning system	temperature of the product	room temperature

Choose up, amongst the 3 following categories, which one best matches to your application:



Into the selected category, choose the quality of belt whose general characteristics, such as **resistance, hardness, friction coefficient, stretch, operating temperature...** are the closest to the ones your are looking for.

Examples :

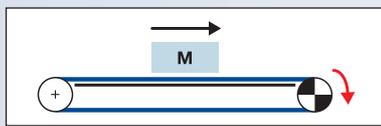
- In case of accumulation of the products transported on the belt, choose the quality with the lowest friction coefficient.
- To convey heavy loads, choose the strongest and less stretchy quality.



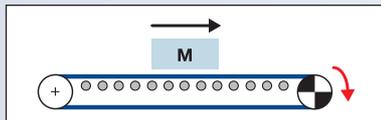
# conveying / simplified calculations

SYMBOLE	MEASURES	DESIGNATION	BELT CHARACTERISTICS (in catalog)
M	Kg	Transported load	
Mmax	Kg	Maximum load limit per belt	
F	daN	Minimum traction force for the continuous driving of the load M	
F'	daN	Minimum traction force for full-loaded starts with the load M	
Ft	daN	traction force of the chosen belt	X
t	%	Stretch corresponding to the traction force of the belt Ft	X
Cf		Friction coefficient of the belt on its runner	X
Cr		Rolling coefficient of the belt on its support (0.05 to 0.1 according to the conditions: smooth support, bearings,...)	
Cfp		Friction coefficient on the transported product on the belt	
Cs		Safety coefficient	

## type of conveyor



CONVEYOR WITH SUPPORT PLATE



CONVEYOR WITH SUPPORT ROLLERS



CONVEYOR WITH ACCUMULATION

For all type of conveyors, in case of **STOP-AND-GO DRIVING** (full-loaded starts):

## simplified calculation of the needed traction force to drive a specific load

$$F = M \times C_f$$

$$F = M \times C_r$$

In case of accumulation, take into account the friction coefficient of product to convey on the belt. Add this value to the friction coefficient of the belt on its support:

$$F = M \times (C_f + C_{fp})$$

The traction force **F** determined above must be multiplied by 2.

$$F' = F \times 2$$

## simplified calculation of the maximum load limit per belt

$$M_{max} = F_t / C_f$$

$$M_{max} = F_t / C_r$$

$$M_{max} = F_t / (C_f + C_{fp})$$

As you calculate **Mmax**, only take into account half the traction force of the selected belt.

$$F_t/2$$

## example

Conveying in food industry of 100kg on a 300mm wide conveyor belt.

Wet conditions - belt cleaned very often.

Stainless steel plate support.  
Conveyor spacing: 10 meters.  
Drums diameter: 150 mm.  
Stop-and-go driving.

## choice of a belt category (page 31)

Long spacing  
Medium load  
Full-Loaded start  
Stainless steel plate

CATEGORY 3

DEL/FLEX with reinforcement ply  
DEL/ROC smooth  
DEL/ROC diamond-embossed

## Calculation of the maximum load limit on the selected belts

	DEL/FLEX with reinforcement ply 3 mm thick	DEL/ROC 2 mm thick	DEL/ROC 3 mm thick	
Friction coef. on stainless steel	Cf	0,35	0,5	0,5
Traction force of the belt at 1% tension	Ft (daN)	7 daN / cm width 210	18 daN / cm <sup>2</sup> section 108	18 daN / cm <sup>2</sup> section 162
Maximum load limit on the belt with full-loaded start	Mmax (Kg)	<b>300</b>	108	<b>162</b>
Safety coef.	Cs = Mmax / M	<b>3</b>	1,1	<b>1,6</b>

## solutions

The drum diameters of the belts previously selected being compatible with the application, 2 solutions can be studied, with a reasonable safety coefficient:

- DEL/FLEX with reinforcement ply 300 x 3mm
- DEL/ROC 300 x 3 mm

We will finally choose a **DEL/ROC** with diamond-embossed bottom side:

- Better sliding on stainless steel plate than smooth DEL/ROC in wet conditions.
- Better resistance to cleaning than a DEL/FLEX with reinforcement ply.