Flat Belt

Structure details:

Cover Fabric

Special polyamid green fabric to ensure low friction, resistance to abrasion, protect the teeth in their perfecting matching with pulleys, low noise.

This polyamid coating is available either on one side or both side.

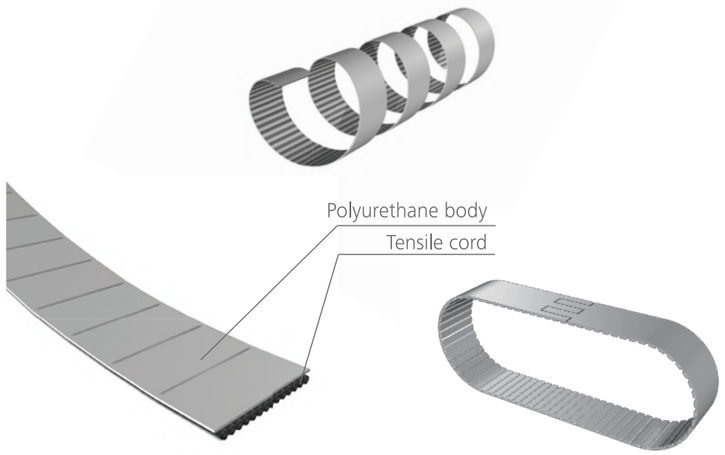
Tensile cord

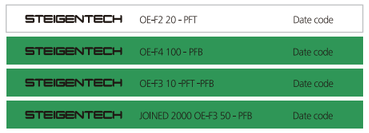
High resistance S and Z parallel steel tension members to deliver high traction and breaking load, extremely low elongation and great flexibility.

Belt can also be produced with Aramid cords according to application requirements for ie non magnetic drives.

Polyurethane body

Extruded with high quality 92 shore A thermoplastic polyurethane, it enables those belts to reach high strength, great flexibility, wear resistance on shock while offering dimensionnal stability.





Application:

Our extruded open ended flat belts are primarly used in light lifting applications or non synchronous power transmission drive. They allow high level of load transfer thanks to their high strength tensile perfectly encased in high resistance shock absorbing polyurethane body.

Possible applications are light weighting fitness, pulp and paper, textile or wood working.

Properties:

Oil, grease and to some acids and alkali resistance

High abrasion resistance, resistant to ageing, hydrolysis and ozone

Temperature range from -20°C up to +80°C

Standard roll length of 50m or 100m at +/- 1%

Our polyurethane extruded open ended belt can be produced to any length by welding to meet any various conveying application requirements and thus makes joined true endless belt

Meets RoHS and REACH requirements

Section Dimensions:

	OE-F1	OE-F2	OE-F3	OE-F4
Belt Thickness (mm)	1,0 +/- 0,1	2,0 +/- 0,2	3,0 +/- 0,3	4,0 +/- 0,4
Min. diameter of pulley without back bending	16	45	100	100
Min. diameter of idler (mm)	30	50	100	100
Min. diameter of pulley with back bending	25	50	110	110
Min. diameter of back idler (mm)	30	90	150	150
Min. Joined Pitch Length (mm) [1]	N/A	500	500	900

[1]: maximum traction load is half of open ended belt, to be used only with conveying applications

Product Codification:

Designation:

Possible sections : OE-F1, OE-F2, OE-F3, OE-F4

	100	-	OE-F2	-	50	-	PU	-	S	-	PFT	
	Roll Length (m)		Open Ended Belt Type		Belt width (mm)		Polyurethane		Steel Cord		Polyamid Fabric Teeth	
	100	-	OE-F4	-	100	-	PU	-	S	-	PFB	
	Roll Length (m)		Open Ended Belt Type		Belt width (mm)		Polyurethane		Steel Cord		Polyamid Fabric Back	
	50	-	OE-F3	-	10	-	PU	-	S	-	PFT	PFB
	Roll Length (m)		Open Ended Belt Type		Belt width (mm)		Polyurethane		Steel Cord		Polyamid Fabric Teeth	Polyamid Fabric Back
2000	-	J	-	OE-F3	-	50	-	PU	-	S	-	PFB	
Belt Length (mm)				Joined Belt Type		Belt width (mm)		Polyurethane		Steel Cord		Polyamid Fabric Back	

Standard Belt Range

Below all average values for steel cord, no aramid cord available for now, please consult us for any special requirements.

OE-F1

Belt Width (mm) +/- 0,5:	10	20
Belt Weight (g/m):	20	40
Max Traction Load (N):	400	900
Breaking Strength (N):	1800	3700

OE-F2

Belt Width (mm) +/- 0,5:	25	50	75	100
Belt Weight (g/m):	125	250	375	500
Max Traction Load (N):	2500	5000	7500	10000
Breaking Strength (N):	10000	20000	30000	40000

OE-F3

Belt Width (mm) +/- 0,5:	25	50	100
Belt Weight (g/m):	175	350	690
Max Traction Load (N):	2500	5000	10000
Breaking Strength (N):	10000	20000	40000

OE-F4

Belt Width (mm) +/- 0,5:	25	50	100
Belt Weight (g/m):	230	450	900
Max Traction Load (N):	7500	15000	30000
Breaking Strength (N):	30000	60000	120000

Never use SteigenTech® products in application or system that depend only the belt to raise/lower, support or sustain any mass without an indepedant safety backup system.

SteigenTech® does not assume any liability concerning the application and suitability of its products.

SteigenTech® does not assume liability for process results, damages or consequences damages associated with the usage of its products.

All values above are theoritical calculation and listed for references purposes only.

It is the ultimate responsibility of the designer of the drive system to assess and to check SteigenTech® products are appropriately applied and dimensioned for a particular application.