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## uni CPB

### - The heavy duty belt



- A new solution for moving heavy loads
- Long conveyor capability for high capacity applications
- Closed surface options
- Open surface options for drainage



## uni CPB

uni CPB is a very strong belt which enables customers to carry heavy loads over long distances. Typical applications include the car industry or similar capacity requirements.

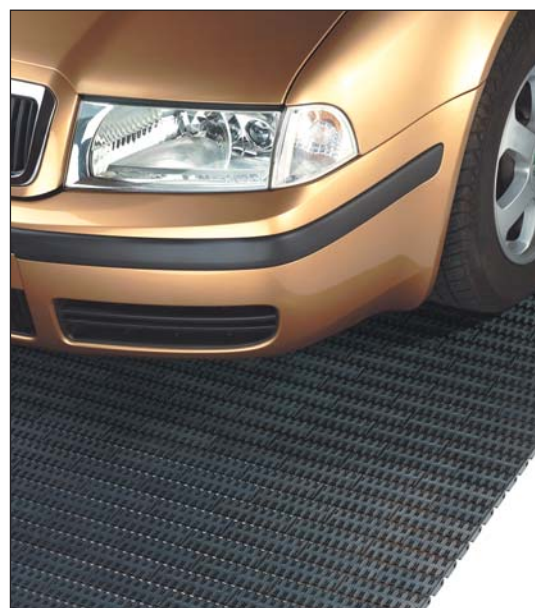
uni CPB is available in two options - a closed flat top version or a 20% open version with a rough surface.



uni CPB C



uni CPB 20% rough



## Standard Materials

### POM-NL

NL = No Lubricant to ensure that no lubricant may effect the paintwork.  
Surface resistivity of POM-NL according to IEC 60093/ASTM D257:  
 $1 \times 10^{14}$  Ohm x cm.

### POM-NLAS

POM-NLAS contains no lubricant and contains additives reducing the electrical resistance, thereby helping to dissipate static electricity.  
Surface resistivity of POM-NLAS according to IEC 60093/ASTM D257:  
 $1 \times 10^{11}$  Ohm x cm.

Standard pin material for POM-NL and POM-NLAS belts: PA6.6, natural.

## Belt Weights

Belt material	POM	
Pin material	PA6.6	
	kg/m <sup>2</sup>	lb/ft <sup>2</sup>
uni CPB C/20% rough	16.6	3.40

Pitch: 50.8 mm (2.00 inch)

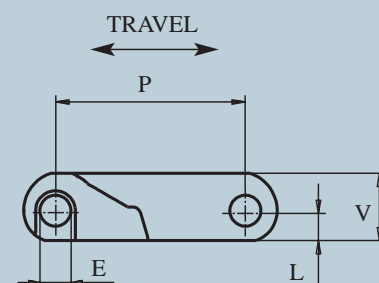
### Straight running

Backflex radius:  
85 mm (3.3 inch)

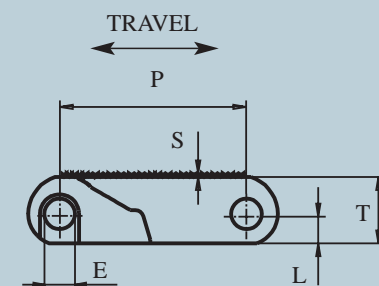
Locking system:  
Lockpin

### Industries and applications

Car industry  
Distribution  
Food waste disposal  
Industrial applications  
Manrider  
Skiing industry  
Tire industry



uni CPB C



uni CPB 20% rough

	mm	inch
E	8.3	0.33
L	8.0	0.31
P	50.8	2.00
S	1.0	0.04
T	18.0	0.71
V	19.0	0.75



## Standard Belt Widths

mm	inch	mm	inch	mm	inch	mm	inch
150	5.9	651	25.6	1151	45.3	1652	65.0
200	7.9	701	27.6	1201	47.3	1702	67.0
250	9.8	751	29.6	1252	49.3	1752	69.0
300	11.8	801	31.5	1302	51.3	1802	70.9
350	13.8	851	33.5	1352	53.2	1852	72.9
401	15.8	901	35.5	1402	55.2	1902	74.9
451	17.8	951	37.4	1452	57.2	1952	76.9
501	19.7	1001	39.4	1502	59.1	2002	78.8
551	21.7	1051	41.4	1552	61.1	-	-
601	23.7	1101	43.3	1602	63.1	-	-

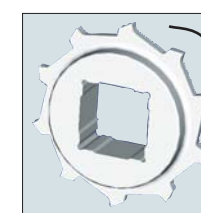
## Permissible Tensile Strength

Belt material	POM	
Pin material	PA6.6	
	N/m	lb/ft
uni CPB	52000	3563

The values in the tables are for belts at +20°C (+68°F).  
Please contact uni-chains for data at other temperatures.

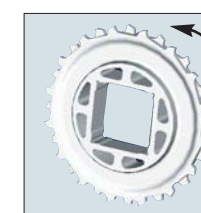
## Standard Sprockets

No of teeth	pitch diameter		overall diameter		hub diameter		bore		reference no. plastic
	mm	inch	mm	inch	mm	inch	mm	inch	
10	164.4	6.47	165.8	6.53	65.0	2.56	ø 19.1	ø 0.75	1833MPB10N
							sq 38.1	sq 1.50	1833MPB10N15SQ
							sq 40.0	sq 1.57	1833MPB1040SQ
					120.0	4.72	ø 19.1	ø 0.75	1833MPB10NBB
							sq 50.8	sq 2.00	1833MPB10N2SQBB
							sq 63.5	sq 2.50	1833MPB10N25SQBB
12	196.3	7.73	198.6	7.82	65.0	2.56	sq 60.0	sq 2.36	1833MPB10N60SQBB
							sq 38.1	sq 1.50	1833MPB12N15SQ
							sq 40.0	sq 1.57	1833MPB1240SQ
					120.0	4.72	ø 19.1	ø 0.75	1833MPB12NBB
							sq 38.1	sq 1.50	1833MPB12N15SQBB
							sq 50.8	sq 2.00	1833MPB12N2SQBB
16*	260.4	10.25	264.0	10.39	160.0	6.30	sq 63.5	sq 2.50	1833MPB12N25SQBB
							sq 40.0	sq 1.57	1833MPB12N40SQBB
							sq 60.0	sq 2.36	1833MPB12N60SQBB
					sq 60.0	sq 2.36	sq 60.0	sq 2.36	1833MPB16N60SQBB2
							sq 63.5	sq 2.50	1833MPB16N25SQBB2
							sq 88.9	sq 3.50	1833MPB16N35SQBB2
sq 90.0	sq 3.54	1833MPB16N90SQBB2							



No. of teeth: 10 and 12  
Width of sprockets:  
42.3 mm (1.67 inch)  
Tooth width:  
9.5 mm (0.37 inch)

Please note if travel is in both direction an extra set of sprockets is required



No. of teeth: 16\*  
Bi-directional sprocket  
Width of sprockets:  
40.8 mm (1.61 inch)  
Total tooth width:  
17.8 mm (0.70 inch)

Note: For guidance on maximum operating length/weight combinations please contact uni-chains with your requirements.

Please note that the values in the table are max. values.  
The dimensions are valid at +20°C (+68°F). Belt widths vary with temperature.  
Please note that if special material is used, the width might differ from the widths shown in the table. Belts wider than mentioned in the table can be assembled.

## Max. Load per Sprocket

POM belt	
N	lb
2500	560

sq = Square bore.

Standard material: Polyamide.  
Other sprocket sizes are available upon request.  
Please contact uni-chains for further information.