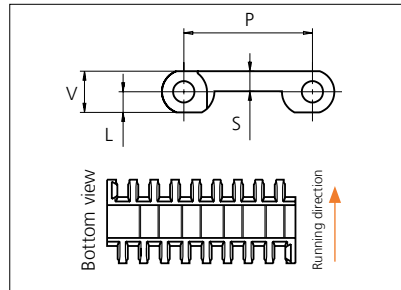


Plastic Modular Belt

Series **uni OPB 8** Type **Rough**



Straight running belt
 Nominal pitch: 50.0 mm (1.97 in)
 Surface type: Rough
 Surface opening: Closed
 Backflex radius: 75.0 mm (3.00 in)
 Pin diameter: ø8 mm (1.97 in)

*uni-chains recommends this travel direction.
 However, travel in both directions is possible.

Recommended belt material & color	POM-D W		mm	in		mm	in
		P (Nominal)	50.0	1.97	V	16.0	0.63
Recommended pin and lock material & color	PP W	L	8.0	0.31	S	7.8	0.31

Non standard material and color: See uni Material and Color Overview.

Alternative materials: Belt: POM-LF, POM-SLF, PP, PE, PA6.6 and PA6.6H

Rodlock: PP **W**

Endlock: PP **W** **G** **B** and PE **W** **B**

Lockpin: PE **W** PA6.6 **N** PP **W**

Pin: PP **W** PE **W** SS304 and SS316

Belt width		Permissible tensile force (Belt/pin material)						Belt weight (Belt/pin material)						*Min. No. drive sprocket per shaft	Number of wear strips (Min. No.)	
		POM-D/PA6.6		PP/PA6.6		PE/PA6.6		POM-D/PA6.6		PP/PA6.6		PE/PA6.6			**Carry (pcs)	**Return (pcs)
mm	in	N	lbf	N	lbf	N	lbf	kg/m	lb/ft	kg/m	lb/ft	kg/m	lb/ft			
152	6.0	3344	752	1672	376	1003	226	1.8	1.20	1.1	0.77	1.2	0.83	2	2	2
303	11.9	6666	1499	3333	749	2000	450	3.5	2.38	2.3	1.53	2.5	1.65	3	3	2
455	17.9	10010	2250	5005	1125	3003	675	5.3	3.58	3.4	2.29	3.7	2.48	4	4	2
606	23.9	13332	2997	6666	1499	4000	899	7.1	4.76	4.5	3.05	4.9	3.30	5	5	3
758	29.8	16676	3749	8338	1874	5003	1125	8.9	5.96	5.7	3.82	6.1	4.13	6	6	3
909	35.8	19998	4496	9999	2248	5999	1349	10.6	7.15	6.8	4.58	7.4	4.95	7	7	4
1061	41.8	23342	5247	11671	2624	7003	1574	12.4	8.34	8.0	5.35	8.6	5.78	8	8	4
1212	47.7	26664	5994	13332	2997	7999	1798	14.2	9.53	9.1	6.11	9.8	6.60	9	9	5
1364	53.7	30008	6746	15004	3373	9002	2024	16.0	10.73	10.2	6.88	11.0	7.43	10	10	5
1515	59.6	33330	7493	16665	3746	9999	2248	17.7	11.91	11.4	7.64	12.3	8.25	11	11	6
1667	65.6	36674	8244	18337	4122	11002	2473	19.5	13.11	12.5	8.40	13.5	9.07	12	12	6
1818	71.6	39996	8991	19998	4496	11999	2697	21.3	14.29	13.6	9.16	14.7	9.90	13	13	7
1970	77.6	43340	9743	21670	4871	13002	2923	23.0	15.49	14.8	9.93	16.0	10.72	14	14	7

Additional standard belt widths are available in steps of 151.5 mm (5.96 in.) Additional non-standard belt widths are available in steps of 33.5 mm (1.32 in.)

2576	101.4	56672	12740	28336	6370	17002	3822	30.1	20.26	19.3	12.98	20.9	14.02	18	18	9
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Additional standard belt widths are available in steps of 151.5 mm (5.96 in.) Additional non-standard belt widths are available in steps of 33.5 mm (1.32 in.)

2879	113.3	63338	14238	31669	7119	19001	4272	33.7	22.64	21.6	14.51	23.3	15.67	20	20	10
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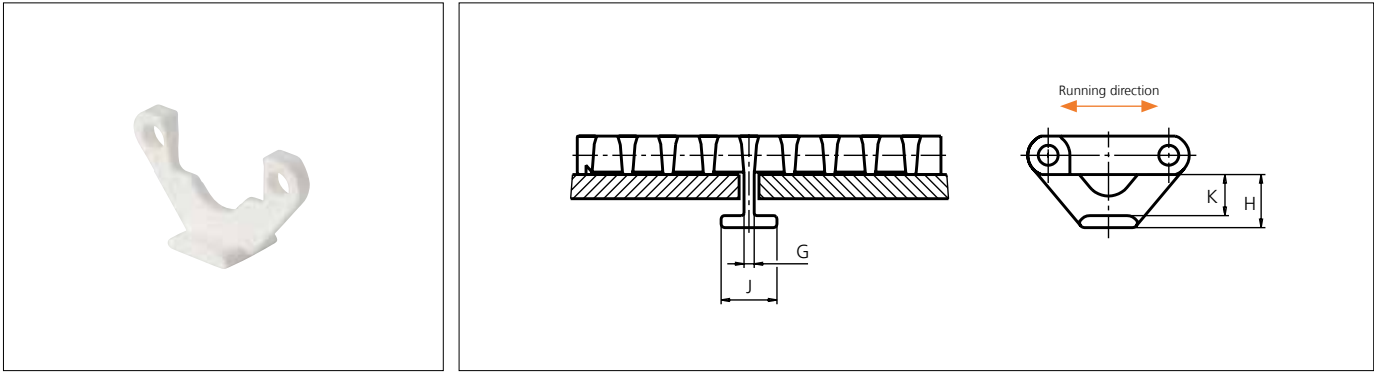
General belt tolerance is +0/-0.4% at 23°C/73°F and 50% RH. For exact belt width contact Customer Service. Non standard belt width on request.

*Max. Load per Drive Sprocket. Belt material: POM 2500 N (562 lbf), PP 1200 N (270 lbf), PE 500 N (270 lbf)

**Max. Spacing between wear strips, Carry: 152 mm (6 in.) ; Return: 304 mm (12 in.)

Accessories

Tab



Type	Recommended material & color	G		H		J		K	
		mm	in	mm	in	mm	in	mm	in
Bottom Hold Down	POM-D W	4.2	0.17	22.0	0.87	23.2	0.92	17.0	0.67
	POM-LF B								
	POM-D W								

Non Standard material and color: See uni Material and Color Overview.

Sprocket

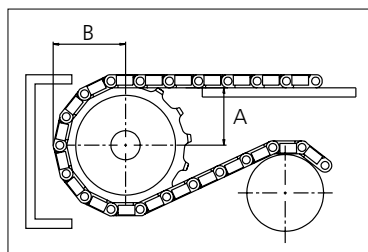
No of teeth	Bore size												Overall diameter		Pitch-diameter		Hub-diameter		A-dimen- sion		B-dimen- sion		Single row/Two way	Double row/Two way	Molded PA6 LG	Machined PA6 N	
	Pilot Bore	in	0.75	0.78	0.98	1.00	1.18	1.25	1.50	1.57	2.36	2.50															3.54
													mm	19.1	20.0	25.0	25.4	30.0	31.8	38.1	40.0	60.0					
Z06	x					●	●	●	■	■				94.5	3.72	100.3	3.95	65	2.56	35.5	1.40	58.6	2.31	x		x	
Z08	x					●	●	●	■	■				129	5.08	131.1	5.16	65	2.56	52.6	2.07	74	2.91	x		x	
Z10	x						●	●	■	■	■			160.1	6.30	162.4	6.39	65	2.56	69.2	2.72	89.7	3.53	x		x	
Z12	x						●	●	■	■	■			191.5	7.54	193.9	7.63	65	2.56	85.7	3.37	105.5	4.15	x		x	
Z13	x						●		■	■	■			207.3	8.16	209.7	8.26	72	2.83	93.8	3.69	113.4	4.46	x		x	
Z13												■		207.3	8.16	209.7	8.26	150	5.91	93.8	3.69	113.4	4.46	x			x
Z16	x						●		■	■	■		■	254.8	10.03	257.3	10.13	200	7.87	118.2	4.65	137.1	5.40	x			x

■ Molded sprocket

● Molded sprocket

■ Machined sprocket

● Machined sprocket



Other sprocket sizes are available upon request.
 Two-part sprocket are available upon request.
 Round bores are always delivered with keyway.
 Other bore sizes are available upon request.
 uni Retainer Rings: See uni Retainer Ring data sheet
 Width of tooth = 11.0 mm (0.43 in)
 Width of sprocket = 42.3 mm (1.67 in)

Max load per sprocket shown does not take bore size into account.
 Please also ensure that sufficient size shaft is chosen for corresponding load.

For correct sprocket position: See uni Assembly Instructions for uni OPB.
 For more detailed sprocket information, contact Customer Service.

Non standard material and color: See uni Material and Color Overview.



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