

# uni-chains Modular

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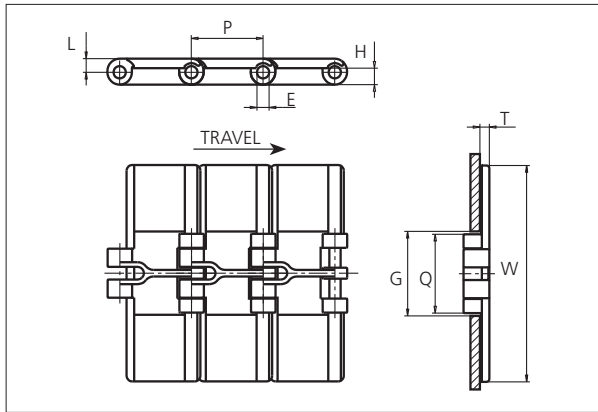
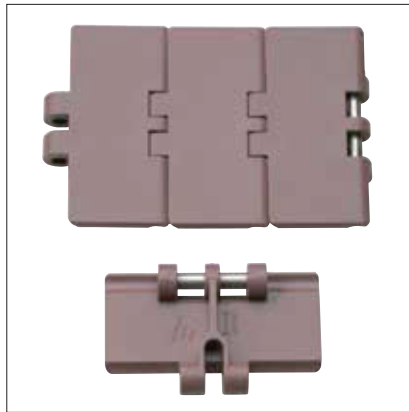


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# Slat Top Plastic Chain

Series **uni 820** Type -



**Slat Top Plastic Chain**  
 Straight running chain  
 Pitch: 38.1 mm (1.50 in)  
 Backflex radius:  
 75.0 mm (3.00 in)  
 Permissible tensile strength:  
 POM material:  
 2000 N (450 lbf)  
  
 Standard shipping lengths:  
 boxes of 80 links  
 = 3.048 m (10.0 ft)

STANDARD

E		G		H		L		P		Q		T	
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
6.4	0.25	44.5	1.75	9.5	0.37	7.1	0.28	38.1	1.50	41.5	1.63	4.0	0.16

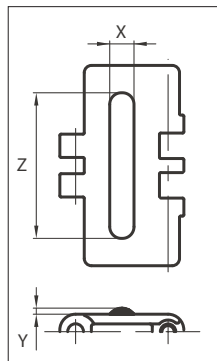
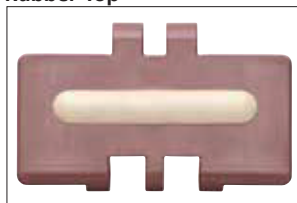
All dimensions are for chains in POM material.

	Width (W)		Material & color	Pin material	Weight	
	mm	in			kg/m	lb/ft
<b>K250</b>	63.5	2.50	POM-LF <b>BR B</b>	<b>SS304</b>	0.7	0.50
<b>K325</b>	82.6	3.25	POM-D <b>W G</b> POM-LF <b>BR B</b> POM-SLF <b>DG</b> PP-AR <b>N</b> PBT-GR <b>K</b> POM-EC <b>K</b>	<b>SS304</b>	0.9	0.57
<b>K350</b>	88.9	3.50	POM-LF <b>BR B</b>	<b>SS304</b>	0.9	0.60
<b>K400</b>	101.6	4.00	POM-D <b>G</b> POM-LF <b>BR B</b>	<b>SS304</b>	1.0	0.64
<b>K450</b>	114.3	4.50	POM-D <b>W G</b> POM-LF <b>BR B</b>	<b>SS304</b>	1.0	0.69
<b>K600</b>	152.4	6.00	POM-D <b>G</b> POM-LF <b>BR B</b>	<b>SS304</b>	1.3	0.84
<b>K750</b>	190.5	7.50	POM-D <b>W G</b> POM-LF <b>BR B</b> POM-SLF <b>DG</b>	<b>SS304</b>	1.5	0.99

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

## Accessories

### Rubber Top



When ordering, please state the required distance between the Rubber Top.  
 Other Non Standard rubber profiles:  
 See uni Rubber Profile Overview.

Width	Link material	Rubber material	Z		X		Y	
			mm	in	mm	in	mm	in
<b>K325</b>	POM-LF <b>BR</b>	05 <b>I</b>	60	2.36	10	0.39	2.5	0.10
<b>K350</b>	POM-LF <b>BR</b>	05 <b>I</b>	60	2.36	10	0.39	2.5	0.10
<b>K400</b>	POM-LF <b>BR</b>	05 <b>I</b>	90	3.54	10	0.39	2.5	0.10
<b>K450</b>	POM-LF <b>BR</b>	05 <b>I</b>	105	4.13	10	0.39	2.5	0.10
<b>K600</b>	POM-LF <b>BR</b>	05 <b>I</b>	130	5.12	10	0.39	2.5	0.10
<b>K750</b>	POM-LF <b>BR</b>	05 <b>I</b>	170	6.69	10	0.39	2.5	0.10

STRAIGHT RUNNING

PITCH 38.1 MM/1.50 IN



## Sprocket

No. of teeth	Pitch diameter		Overall diameter		Min. ø bore		Max. ø bore		Hub diameter		Dimension A		Dimension B		Molded PA6 LG	Molded Cast Iron	Machined PA6 LG
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in			
Z19	117.3	4.62	117.0	4.61	20.0	0.79	40.0	1.57	58.0	2.28	58.7	2.31	65.9	2.59	✓	✓	
Z21	129.2	5.09	130.0	5.12	20.0	0.79	40.0	1.57	58.0	2.28	65.0	2.56	71.8	2.83	✓	✓	
Z23	141.2	5.56	142.0	5.59	20.0	0.79	40.0	1.57	58.0	2.28	71.2	2.80	77.8	3.06	✓	✓	
Z25	153.2	6.03	155.0	6.10	20.0	0.79	40.0	1.57	58.0	2.28	77.4	3.05	83.8	3.30	✓	✓	
Z27	165.2	6.50	167.0	6.57	20.0	0.79	70.0	2.76	-	-	83.6	3.29	89.8	3.54		✓	✓
Z29	177.2	6.98	179.0	7.05	20.0	0.79	70.0	2.76	-	-	89.8	3.54	95.8	3.77		✓	✓
Z31	189.3	7.45	192.0	7.56	20.0	0.79	70.0	2.76	-	-	95.9	3.78	101.8	4.01		✓	✓

## Two part sprocket

No. of teeth	Pitch diameter		Overall diameter		Min. ø bore		Max. ø bore		Hub diameter		Dimension A		Dimension B		Molded PA6 LG
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
Z19	117.3	4.62	117.0	4.31	20.0	0.79	40.0	1.57	58.0	2.28	58.7	2.31	65.9	2.59	✓
Z21	129.2	5.09	130.0	4.81	20.0	0.79	40.0	1.57	58.0	2.28	65.0	2.56	71.8	2.83	✓
Z23	141.2	5.56	142.0	5.30	20.0	0.79	40.0	1.57	58.0	2.28	71.2	2.80	77.8	3.06	✓
Z25	153.2	6.03	155.0	5.79	20.0	0.79	40.0	1.57	58.0	2.28	77.4	3.05	83.8	3.30	✓

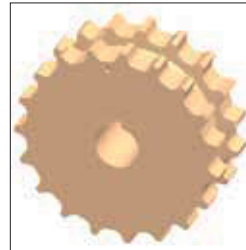
### Molded sprocket



### Cast iron sprocket



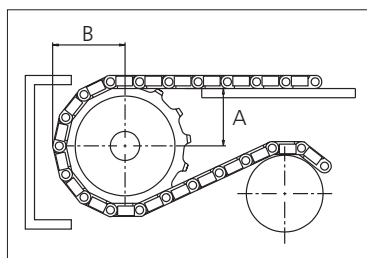
### Machined sprocket



### Two part sprocket



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



Please ensure that sufficient size shaft and keyway are chosen for corresponding load.

Other sprocket sizes are available upon request

Width of tooth: 42.3 mm/1.70 in

Width of sprocket: 42.3 mm/1.70 in

uni Retainer Rings: See uni Retainer Ring data sheet

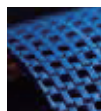
uni Idler: See uni Idler data sheet



Conveyor Belts



Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

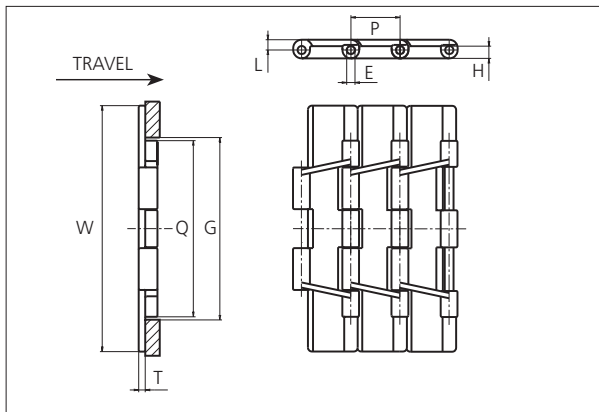


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# Slat Top Plastic Chain

Series **uni 821** Type -



**Slat Top Plastic Chain**  
 Straight running chain  
 Pitch: 38.1 mm (1.50 in)  
 Backflex radius:  
 75.0 mm (3.00 in)  
 Permissible tensile strength:  
 POM material 3000 N (674 lbf)  
  
 Standard shipping lengths:  
 boxes of 80 links  
 = 3.048 m (10.0 ft)

STANDARD

E		G		H		L		P		Q		T	
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
6.4	0.25	140.0	5.51	9.5	0.37	8.0	0.31	38.1	1.50	136.5	5.37	5.0	0.20

All dimensions are for chains in POM material.

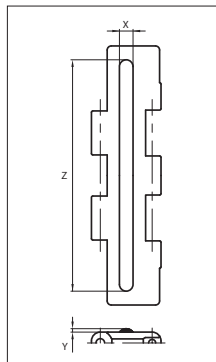
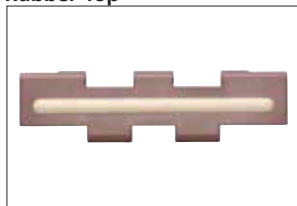
	Width (W)		Material & color	Pin material	Weight	
	mm	in			kg/m	lb/ft
<b>K750</b>	190.5	7.50	POM-D <b>G</b> POM-LF <b>BR</b>	<b>SS304</b>	2.6	1.74
			POM-SLF <b>G</b>			
<b>K1000</b>	254.0	10.00	POM-D <b>G</b> POM-LF <b>BR</b>	<b>SS304</b>	3.1	2.08
			POM-SLF <b>G</b>			
<b>K1200</b>	304.8	12.00	POM-D <b>G</b> POM-LF <b>BR</b>	<b>SS304</b>	3.4	2.29

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

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

## Accessories

### Rubber Top



When ordering, please state the required distance between the Rubber Top.

Other Non Standard rubber profiles:  
 See uni Rubber Profile Overview.

Width	Link material	Rubber material	Z		X		Y	
			mm	in	mm	in	mm	in
<b>K750</b>	POM-LF <b>BR</b>	05 <b>I</b>	170	6.69	10	0.39	2.5	0.09
<b>K1000</b>	POM-LF <b>BR</b>	05 <b>I</b>	200	7.87	10	0.39	2.5	0.09
<b>K1200</b>	POM-LF <b>BR</b>	05 <b>I</b>	295	11.61	8	0.31	2.5	0.09

STRAIGHT RUNNING

PITCH 38.1 MM/1.50 IN

### Sprocket

No. of teeth	Pitch diameter		Overall diameter		Min. ø bore		Max. ø bore		Hub diameter		Dimension A		Dimension B		Molded Cast Iron	Machined PA6
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		
Z19	117.3	4.62	117.0	4.61	20.0	0.79	70.0	2.76	0	0	58.7	2.31	64.5	2.54		✓
Z21	129.2	5.09	130.0	5.12	20.0	0.79	70.0	2.76	0	0	65.0	2.56	70.5	2.78	✓	✓
Z23	141.2	5.56	142.0	5.59	20.0	0.79	70.0	2.76	0	0	71.2	2.80	76.5	3.01	✓	✓
Z25	153.2	6.03	155.0	6.10	20.0	0.79	70.0	2.76	0	0	77.4	3.05	82.5	3.25	✓	✓
Z27	165.2	6.50	167.0	6.57	20.0	0.79	100.0	3.93	0	0	83.6	3.29	88.5	3.48	✓	✓
Z29	177.2	6.98	179.0	7.05	20.0	0.79	110.0	4.33	0	0	89.8	3.54	94.6	3.72	✓	✓
Z31	189.3	7.45	192.0	7.56	20.0	0.79	120.0	4.72	0	0	95.9	3.78	100.6	3.96	✓	✓

### Two part sprocket

No. of teeth	Pitch diameter		Overall diameter		Min. ø bore		Max. ø bore		Hub diameter		Dimension A		Dimension B		Molded PA6
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
Z25	153.2	6.03	155.0	6.10	30.0	1.18	40.0	1.57	58.0	2.28	77.4	3.05	82.5	3.25	✓

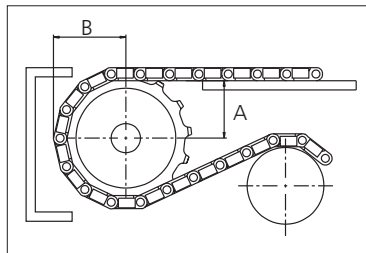
#### Cast iron sprocket



#### Machined sprocket



#### Molded two part sprocket



Please ensure that sufficient size shaft and keyway are chosen for corresponding load.

Other sprocket sizes are available upon request

Width of tooth: 79.4 mm/3.13 in

Width of sprocket: 79.4 mm/3.13 in

uni Retainer Rings: See uni Retainer Ring data sheet

uni Idler: See uni Idler data sheet

uni Guide Rings can be mounted on cast iron and machined sprockets. See uni Guide Rings data sheet.

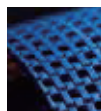
Non standard material and color:  
See uni Material and Color Overview.



Conveyor Belts



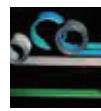
Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

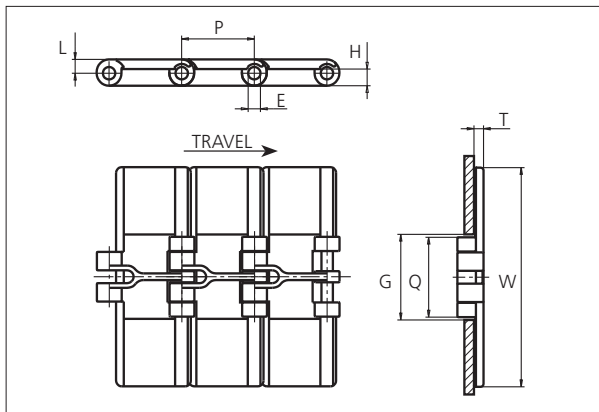
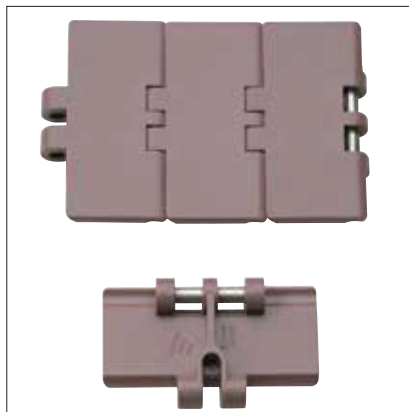


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# Slat Top Plastic Chain

Series **uni 831** Type -



**Slat Top Plastic Chain**  
 Straight running chain  
 Pitch: 38.1 mm (1.50 in)  
 Backflex radius:  
 75.0 mm (3.00 in)  
 Permissible tensile strength:  
 POM material:  
 2000 N (450 lbf)  
 Standard shipping lengths:  
 boxes of 80 links  
 = 3.048 m (10.0 ft)

STANDARD

E		G		H		L		P		Q		T	
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
6.4	0.25	44.5	1.75	8.5	0.33	7.1	0.28	38.1	1.50	41.5	1.63	5.0	0.20

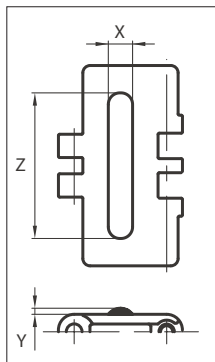
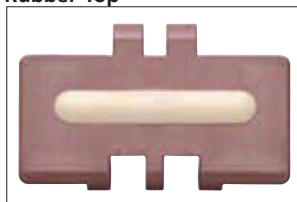
All dimensions are for chains in POM material

	Width (W)		Material & color	Pin material	Weight	
	mm	in			kg/m	lb/ft
<b>K250</b>	63.5	2.50	-	-	-	-
<b>K325</b>	82.6	3.25	POM-LF <b>BR</b> POM-SLF <b>G</b>	<b>SS304</b>	1.0	0.67
<b>K350</b>	88.9	3.50	-	-	-	-
<b>K400</b>	101.6	4.00	POM-LF <b>BR</b>	<b>SS304</b>	1.2	0.81
<b>K450</b>	114.3	4.50	POM-LF <b>BR</b>	<b>SS304</b>	1.3	0.87
<b>K600</b>	152.4	6.00	POM-LF <b>BR</b>	<b>SS304</b>	1.6	1.05
<b>K750</b>	190.5	7.50	POM-LF <b>BR</b>	<b>SS304</b>	1.8	1.21

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

## Accessories

### Rubber Top



When ordering, please state the required distance between the Rubber Top.  
 Other Non Standard rubber profiles:  
 See uni Rubber Profile Overview.

Width	Link material	Rubber material	Z		X		Y	
			mm	in	mm	in	mm	in
<b>K325</b>	POM-LF <b>BR</b>	05 <b>I</b>	60	2.36	10	0.39	2.5	0.10
<b>K350</b>	POM-LF <b>BR</b>	05 <b>I</b>	60	2.36	10	0.39	2.5	0.10
<b>K400</b>	POM-LF <b>BR</b>	05 <b>I</b>	90	3.54	10	0.39	2.5	0.10
<b>K450</b>	POM-LF <b>BR</b>	05 <b>I</b>	105	4.13	10	0.39	2.5	0.10
<b>K600</b>	POM-LF <b>BR</b>	05 <b>I</b>	130	5.12	10	0.39	2.5	0.10
<b>K750</b>	POM-LF <b>BR</b>	05 <b>I</b>	170	6.69	10	0.39	2.5	0.10

STRAIGHT RUNNING

PITCH 38.1 MM/1.50 IN





## Sprocket

No. of teeth	Pitch diameter		Overall diameter		Min. ø bore		Max. ø bore		Hub diameter		Dimension A		Dimension B		Molded PA6	Molded Cast Iron	Machined PA6
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in			
Z19	117.3	4.62	117.0	4.61	20.0	0.79	40.0	1.57	58.0	2.28	58.7	2.31	65.9	2.59	✓	✓	
Z21	129.2	5.09	130.0	5.12	20.0	0.79	40.0	1.57	58.0	2.28	65.0	2.56	71.8	2.83	✓	✓	
Z23	141.2	5.56	142.0	5.59	20.0	0.79	40.0	1.57	58.0	2.28	71.2	2.80	77.8	3.06	✓	✓	
Z25	153.2	6.03	155.0	6.10	20.0	0.79	40.0	1.57	58.0	2.28	77.4	3.05	83.8	3.30	✓	✓	
Z27	165.2	6.50	167.0	6.57	20.0	0.79	70.0	2.76	-	-	83.6	3.29	89.8	3.54		✓	✓
Z29	177.2	6.98	179.0	7.05	20.0	0.79	70.0	2.76	-	-	89.8	3.54	95.8	3.77		✓	✓
Z31	189.3	7.45	192.0	7.56	20.0	0.79	70.0	2.76	-	-	95.9	3.78	101.8	4.01		✓	✓

## Two part sprocket

No. of teeth	Pitch diameter		Overall diameter		Min. ø bore		Max. ø bore		Hub diameter		Dimension A		Dimension B		Molded PA6
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
Z19	117.3	4.62	117.0	4.31	20.0	0.79	40.0	1.57	58.0	2.28	58.7	2.31	65.9	2.59	✓
Z21	129.2	5.09	130.0	4.81	20.0	0.79	40.0	1.57	58.0	2.28	65.0	2.56	71.8	2.83	✓
Z23	141.2	5.56	142.0	5.30	20.0	0.79	40.0	1.57	58.0	2.28	71.2	2.80	77.8	3.06	✓
Z25	153.2	6.03	155.0	5.79	20.0	0.79	40.0	1.57	58.0	2.28	77.4	3.05	83.8	3.30	✓

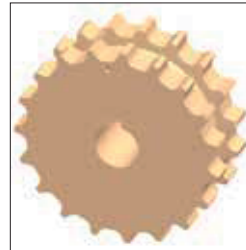
### Molded sprocket



### Cast iron sprocket



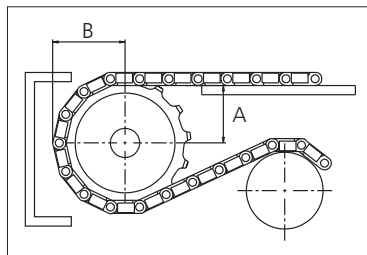
### Machined sprocket



### Two part sprocket



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



Please ensure that sufficient size shaft and keyway are chosen for corresponding load.

Other sprocket sizes are available upon request

Width of tooth: 42.3 mm/1.70 in

Width of sprocket: 42.3 mm/1.70 in

uni Retainer Rings: See uni Retainer Ring data sheet

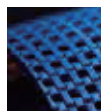
uni Idler: See uni Idler data sheet



Conveyor Belts



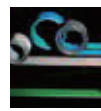
Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

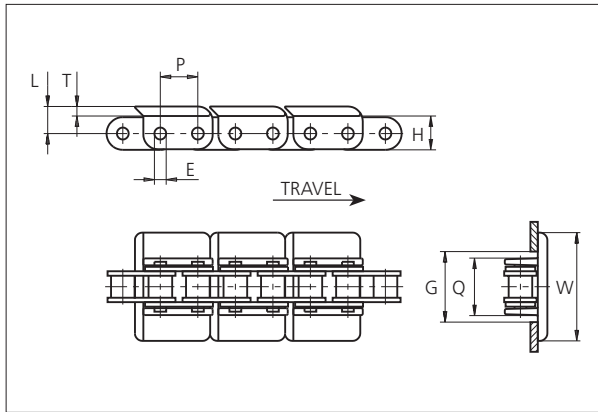


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# Snap-On Plastic Chain

Series **uni 843** Type -



**Snap-On Plastic Chain**  
 Straight running chain  
 Pitch: 12.7 mm (0.50 in)  
 Backflex radius: 100.0 mm (3.90 in)  
 Permissible tensile strength:  
 SS304: 1500 N (340 lbf)  
 Carbon steel: 2000 N (450 lbf)  
 Standard shipping lengths:  
 No. of roller chain links/box:  
 480 = 6.096 m (20.0 ft)  
 No. of flights/box:  
 240 = 6.096 m (20.0 ft)  
 uni 843-K325: No. of roller chain links/box: 240 = 3.048 m (10.0 ft)  
 No of flights/box:  
 120 = 3.048 m (10.0 ft)

E		G		H		L		P		Q		T	
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
4.0	0.16	20.5	0.81	11.5	0.45	9.1	0.36	12.7	0.50	19.1	0.75	3.2	0.13

All dimensions are for chains in POM material.

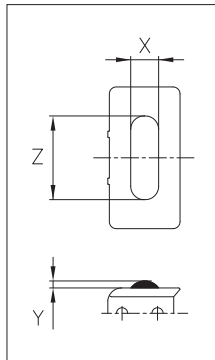
All Snap-On versions can be delivered either with a stainless steel chain (SS304) or a carbon steel chain.

	Width (W)		Recommended flight material & color	Recommended chain material	Weight	
	mm	in			kg/m	lb/ft
<b>K100</b>	25.4	1.00	POM-DI  POM-LFI  BR	SS304 or Carbon steel	0.8	0.54
<b>K138</b>	34.9	1.37	POM-DI  POM-LFI  BR	SS304 or Carbon steel	0.8	0.54
<b>K144</b>	36.4	1.43	POM-DI  POM-LFI  BR	SS304 or Carbon steel	0.8	0.54
<b>K175</b>	44.4	1.75	POM-DI  POM-LFI  BR	SS304 or Carbon steel	0.8	0.54
<b>K200</b>	50.8	2.00	POM-DI  POM-LFI  BR	SS304 or Carbon steel	0.9	0.60
<b>K250</b>	63.5	2.50	POM-DI  POM-LFI  BR	SS304 or Carbon steel	0.9	0.60
<b>K325</b>	82.6	3.25	POM-DI  POM-LFI  BR	SS304 or Carbon steel	1.0	0.67

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

## Accessories

### Rubber Top



When ordering, please state the required distance between the Rubber Top.

Other Non Standard rubber profiles: See uni Rubber Profile Overview.

Width	Link material	Rubber material	Z		X		Y	
			mm	in	mm	in	mm	in
<b>K100</b>	POM-LFI  BR	05  I	12.0	0.47	10.0	0.39	2.5	0.10
<b>K138</b>	POM-LFI  BR	05  I	25.0	0.98	10.0	0.39	2.5	0.10
<b>K144</b>	POM-LFI  BR	05  I	30.0	1.18	10.0	0.39	2.5	0.10
<b>K175</b>	POM-LFI  BR	05  I	30.0	1.18	10.0	0.39	2.5	0.10
<b>K200</b>	POM-LFI  BR	05  I	30.0	1.18	10.0	0.39	2.5	0.10
<b>K250</b>	POM-LFI  BR	05  I	30.0	1.18	10.0	0.39	2.5	0.10
<b>K325</b>	POM-LFI  BR	05  I	30.0	1.18	10.0	0.39	2.5	0.10



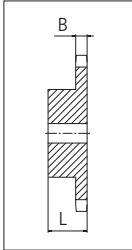
NON STANDARD

STRAIGHT RUNNING

PITCH 12.7 MM/0.50 IN

## Sprocket

No. of teeth	Pitch diameter		Hub diameter		Overall width L		Tooth width B		tBore		Machined S1045
	mm	in	mm	in	mm	in	mm	in	mm	in	
<b>Z18</b>	73.1	2.88	56.0	2.20	28.0	1.10	7.2	0.28	12.0	0.47	✓
<b>Z25</b>	101.3	3.99	70.0	2.76	28.0	1.10	7.2	0.28	14.0	0.55	✓



**Please ensure that sufficient size shaft and keyway are chosen for corresponding load.**

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

Other sprocket sizes are available upon request  
uni Retainer Rings: See uni Retainer Ring data sheet

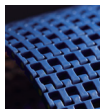
uni 843/170922



Conveyor Belts



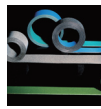
Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

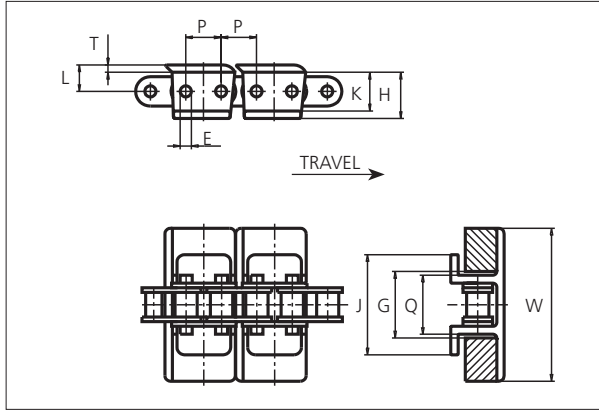


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# Snap-On Plastic Chain

Series **uni 863** Type **Tab**



**Snap-On Plastic Chain**  
 Straight running chain  
 Pitch: 19.1 mm (0.75 in)  
 Backflex radius: 150.0 mm (5.90 in)  
 Permissible tensile strength:  
 uni 863 Tab with (SS304) stainless steel chain: 2700 N (600 lbf)  
 uni 863 Tab with carbon steel chain: 5500 N (1200 lbf)

Standard shipping lengths:  
 No. of roller chain links/box:  
 160 = 3.048 m (10.0 ft)  
 No. of flights/box:  
 80 = 3.048 m (10.0 ft)

STANDARD

E		G		H		K		L		P		Q		T	
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
6.0	0.24	34.9	1.37	25.1	0.99	20.9	0.82	14.3	0.56	19.1	0.75	31.9	1.25	4.0	0.16

All dimensions are for chains in POM material.

All Snap-On versions can be delivered either with a stainless steel chain (SS304) or a carbon steel chain.

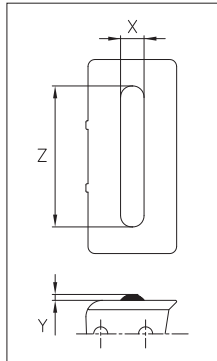
	Width (W)		Flight material & color	Chain material		Weight	
	mm	in		kg/m	lb/ft		
<b>K250</b>	63.5	2.50	-	-	-	-	-
<b>K287</b>	73.0	2.87	-	-	-	-	-
<b>K325</b>	82.6	3.25	POM-DI <b>G</b>	<b>SS304</b> <b>SS430</b>	2.2	1.48	
<b>K450</b>	114.3	4.50	-	-	-	-	-
<b>K500</b>	127.0	5.0	-	-	-	-	-
<b>K600</b>	152.4	6.0	-	-	-	-	-
<b>K700</b>	177.8	7.0	-	-	-	-	-
<b>K1000</b>	254.0	10.0	-	-	-	-	-

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

STRAIGHT RUNNING

## Accessories

### Rubber Top



Width	Link material	Rubber material	Z		X		Y	
			mm	in	mm	in	mm	in
<b>K325</b>	POM-DI <b>G</b>	05 <b>I</b>	60.0	2.36	10.0	0.39	2.5	0.10

When ordering, please state the required distance between the Rubber Top.

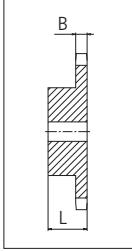
Other Non Standard rubber profiles: See uni Rubber Profile Overview.

PITCH 19.1 MM/0.75 IN



## Sprocket

No. of teeth	Pitch diameter		Hub diameter		Overall width L		Tooth width B		Bore		Machined S1045
	mm	in	mm	in	mm	in	mm	in	mm	in	
Z19	115.7	4.56	80.0	3.15	35.0	1.38	11.7	0.46	16.0	0.63	✓
Z20	121.8	4.79	80.0	3.15	35.0	1.38	11.7	0.46	16.0	0.63	✓
Z25	152.0	5.98	90.0	3.54	40.0	1.57	11.7	0.46	20.0	0.79	✓



**Please ensure that sufficient size shaft and keyway are chosen for corresponding load.**

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

Other sprocket sizes are available upon request.  
uni Retainer Rings: See uni Retainer Ring data sheet.

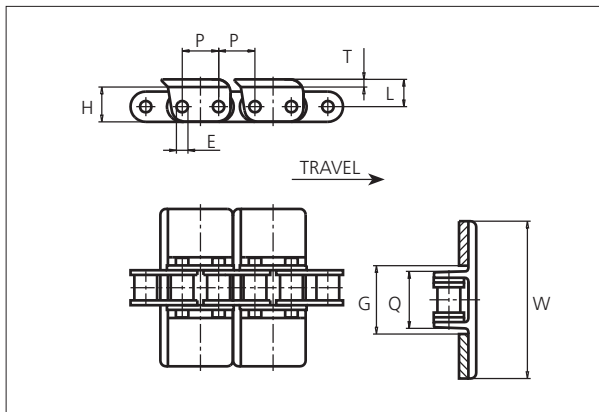
uni 863 Tab/160620



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# Snap-On Plastic Chain

Series **uni 863** Type -



### Snap-On Plastic Chain

Straight running chain  
 Pitch: 19.1 mm (0.75 in)  
 Backflex radius: 150.0 mm (5.90 in)  
 Permissible tensile strength:  
 uni 863 with (SS304) stainless steel chain: 2700 N (600 lbf)  
 uni 863 with carbon steel chain: 5500 N (1200 lbf)  
 Standard shipping lengths:  
 No. of roller chain links/box: 160 = 3.048 m (10.0 ft)  
 No. of flights/box: 80 = 3.048 m (10.0 ft)

E		G		H		L		P		Q		T	
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
6.0	0.24	36.5	1.44	18.6	0.73	14.3	0.56	19.1	0.75	30.5	1.20	4.0	0.16

All dimensions are for chains in POM material.

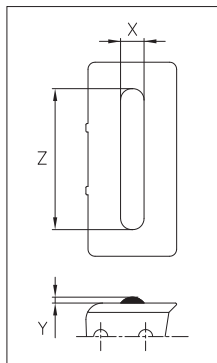
All Snap-On versions can be delivered either with a stainless steel chain (SS304) or a carbon steel chain.

	Width (W)		Flight material & color	Chain material	Weight	
	mm	in			kg/m	lb/ft
<b>K175</b>	44.5	1.75	-	-	-	-
<b>K250</b>	63.5	2.50	-	-	-	-
<b>K325</b>	82.6	3.25	POM-DI <b>G</b>	SS304 or Carbon steel	2.1	1.41
<b>K450</b>	114.3	4.50	POM-LFI <b>BR</b>	SS304 or Carbon steel	2.3	1.55
<b>K600</b>	152.4	6.00	-	-	-	-
<b>K750</b>	190.5	7.50	-	-	-	-

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

## Accessories

### Rubber Top



When ordering, please state the required distance between the Rubber Top.

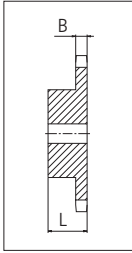
Other Non Standard rubber profiles: See uni Rubber Profile Overview.

Width	Link material	Rubber material	Z		X		Y	
			mm	in	mm	in	mm	in
<b>K325</b>	POM-DI <b>G</b>	05 <b>I</b>	60.0	2.36	10.0	0.39	2.5	0.10
<b>K450</b>	POM-LFI <b>BR</b>	05 <b>I</b>	105.0	4.13	10.0	0.39	2.5	0.10



## Sprocket

No. of teeth	Pitch diameter		Hub diameter		Overall width L		Tooth width B		Bore		Machined S1045
	mm	in	mm	in	mm	in	mm	in	mm	in	
Z19	115.7	4.56	80.0	3.15	35.0	1.38	11.7	0.46	16.0	0.63	✓
Z20	121.8	4.79	80.0	3.15	35.0	1.38	11.7	0.46	16.0	0.63	✓
Z25	152.0	5.98	90.0	3.54	40.0	1.57	11.7	0.46	20.0	0.79	✓



Please ensure that sufficient size shaft and keyway are chosen for corresponding load.

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

Other sprocket sizes are available upon request.  
uni Retainer Rings: See uni Retainer Ring data sheet.

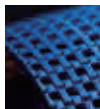
uni 863/170406



Conveyor Belts



Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

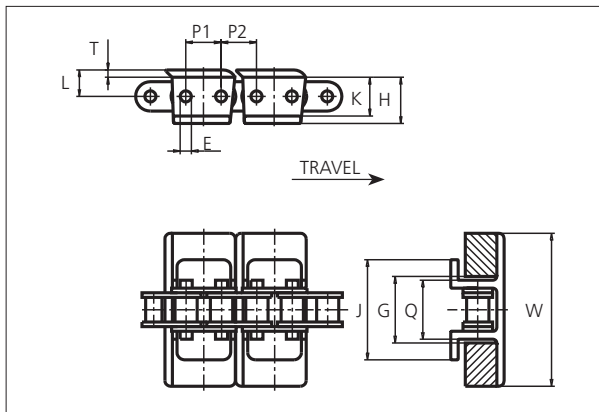


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# Snap-On Plastic Chain

Series **uni 963** Type **Tab**



**Snap-On Plastic Chain**  
 Straight running chain  
 Pitch: 19.1 mm (0.75 in)  
 Backflex radius: 150.0 mm (5.90 in)  
 Permissible tensile strength:  
 uni 963 Tab with (SS304) stainless steel chain: 2000 N (450 lbf)  
 uni 963 Tab with carbon steel chain: 4000 N (900 lbf)  
 Standard shipping lengths:  
 No. of roller chain links/box: 160 = 3.048 m (10.0 ft)  
 No. of flights/box: 80 = 3.048 m (10.0 ft)

E		G		H		J		K		L		P1		P2		Q		T	
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
5.1	0.20	34.9	1.37	25.1	0.99	50.8	2.00	20.9	0.82	14.3	0.56	18.1	0.71	20.1	0.79	31.9	1.25	4.0	0.16

All dimensions are for chains in POM material.

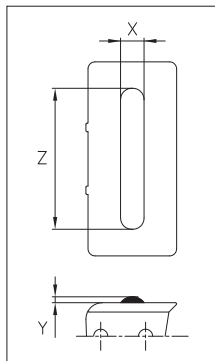
All Snap-On versions can be delivered either with a stainless steel chain (SS304) or a carbon steel chain.

	Width (W)		Recommended flight material & color	Recommended chain material	Weight	
	mm	in			kg/m	lb/ft
<b>K250</b>	63.5	2.50	POM-DI  POM-LFI  BR	SS304 or Carbon steel	2.1	1.41
<b>K325</b>	82.6	3.25	POM-DI  POM-LFI  BR	SS304 or Carbon steel	2.2	1.48
<b>K450</b>	114.3	4.50	POM-DI  POM-LFI  BR	SS304 or Carbon steel	2.4	1.61
<b>K500</b>	127.0	5.0	POM-DI  POM-LFI  BR	SS304 or Carbon steel	2.4	1.61
<b>K1000</b>	254.0	10.0	POM-DI  POM-LFI  BR	SS304 or Carbon steel	3.2	2.15

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

## Accessories

### Rubber Top



When ordering, please state the required distance between the Rubber Top.

Other Non Standard rubber profiles: See uni Rubber Profile Overview.

Width	Link material	Rubber material	Z		X		Y	
			mm	in	mm	in	mm	in
<b>K325</b>	POM-LFI  BR	05  I	60.0	2.36	10.0	0.39	2.5	0.10
<b>K450</b>	POM-LFI  BR	05  I	105.0	4.13	10.0	0.39	2.5	0.10
<b>K500</b>	POM-LFI  BR	05  I	105.0	4.13	10.0	0.39	2.5	0.10
<b>K1000</b>	POM-LFI  BR	05  I	170.0	6.69	10.0	0.39	2.5	0.10

NON STANDARD

STRAIGHT RUNNING

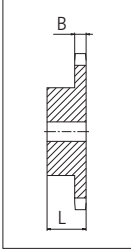
PITCH 19.1 MM/0.75 IN





## Sprocket

No of teeth	Pitch diameter		Hub diameter		Overall width L		Tooth width B		Bore		Machined S1045
	mm	in	mm	in	mm	in	mm	in	mm	in	
Z19	115.7	4.56	80.0	3.15	35.0	1.38	11.7	0.46	16.0	0.63	✓
Z20	121.8	4.79	80.0	3.15	35.0	1.38	11.7	0.46	16.0	0.63	✓
Z25	152.0	5.98	90.0	3.54	40.0	1.57	11.7	0.46	20.0	0.79	✓



Please ensure that sufficient size shaft and keyway are chosen for corresponding load.

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

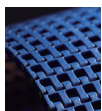
Other sprocket sizes are available upon request.  
uni Retainer Rings: See uni Retainer Ring data sheet.



Conveyor Belts



Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

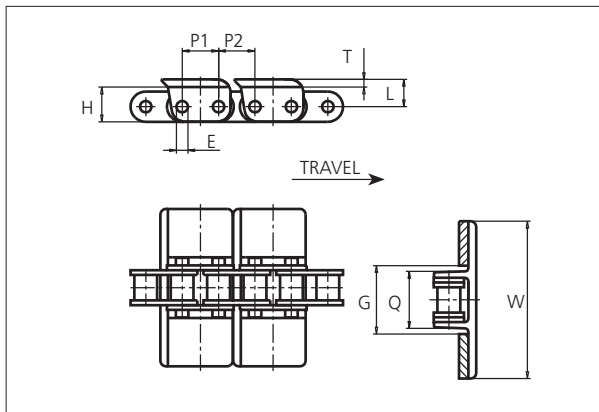


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# Snap-On Plastic Chain

Series **uni 963** Type -



### Snap-On Plastic Chain

Straight running chain  
 Pitch: 19.1 mm (0.75 in)  
 Backflex radius: 150.0 mm (5.90 in)  
 Permissible tensile strength:  
 uni 963 with (SS304) stainless steel chain: 2000 N (450 lbf)  
 uni 963 with carbon steel chain: 4000 N (900 lbf)

Standard shipping lengths:  
 No. of roller chain links/box:  
 160 = 3.048 m (10.0 ft)  
 No. of flights/box:  
 80 = 3.048 m (10.0 ft)

E		G		H		L		P1		P2		Q		T	
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
5.1	0.20	36.5	1.44	18.6	0.73	14.3	0.56	18.1	0.71	20.1	0.79	30.5	1.20	4.0	0.16

All dimensions are for chains in POM material.

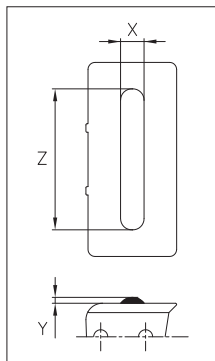
All Snap-On versions can be delivered either with a stainless steel chain (SS304) or a carbon steel chain.

	Width (W)		Flight material & color	Chain material	Weight	
	mm	in			kg/m	lb/ft
<b>K325</b>	82.6	3.25	-	-	-	-
<b>K450</b>	114.3	4.50	-	-	-	-
<b>K600</b>	152.4	6.00	-	-	-	-
<b>K750</b>	190.5	7.50	-	-	-	-

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

## Accessories

### Rubber Top



When ordering, please state the required distance between the Rubber Top.

Other Non Standard rubber profiles:  
 See uni Rubber Profile Overview.

Width	Link material	Rubber material	Z		X		Y	
			mm	in	mm	in	mm	in
<b>K325</b>	POM-LFI <b>BR</b>	05 <b>I</b>	60.0	2.36	10.0	0.39	2.5	0.10

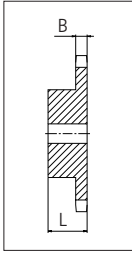
NON STANDARD

STRAIGHT RUNNING

PITCH 19.1 MM/0.75 IN

## Sprocket

No of teeth	Pitch diameter		Hub diameter		Overall width L		Tooth width B		Bore		Machined S1045
	mm	in	mm	in	mm	in	mm	in	mm	in	
Z19	115.7	4.56	80.0	3.15	35.0	1.38	11.7	0.46	16.0	0.63	✓
Z20	121.8	4.79	80.0	3.15	35.0	1.38	11.7	0.46	16.0	0.63	✓
Z25	152.0	5.98	90.0	3.54	40.0	1.57	11.7	0.46	20.0	0.79	✓



Please ensure that sufficient size shaft and keyway are chosen for corresponding load.

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

Other sprocket sizes are available upon request.  
uni Retainer Rings: See uni Retainer Ring data sheet.

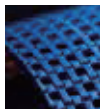
uni 963/160621



Conveyor Belts



Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

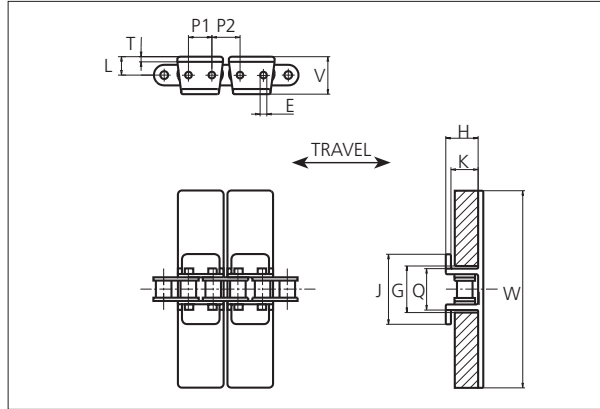


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# Snap-On Plastic Chain

Series **uni 1873** Type **ST**



**Snap-On Plastic Chain**

Straight running chain  
 Pitch: 19.1 mm (0.75 in)  
 Backflex radius: 150.0 mm (5.90 in)  
 Permissible tensile strength:  
 uni 1873 ST with (SS304) stainless steel chain: 2000 N (450 lbf)  
 uni 1873 ST with carbon steel chain: 4000 N (950 lbf)  
 Delivery:  
 3.05 m (10 ft)  
 No. of links/box: 160  
 No. of flights/box: 80

E		G		H		J		L		P1		P2		Q		T		V	
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
5.1	0.20	34.9	1.37	25.0	0.98	54.4	2.14	14.3	0.56	18.1	0.71	20.1	0.79	31.8	1.25	4.0	0.16	29.0	1.14

All dimensions are for chains in POM material.

All Snap-On versions can be delivered either with a stainless steel chain (SS304) or a carbon steel chain.

	Width (W)		Recommended flight material & color	Recommended chain material	Weight	
	mm	in			kg/m	lb/ft
<b>K325</b>	82.6	3.25	POM-DI  POM-LFI  BR	SS304 or Carbon steel	-	-
<b>K450</b>	114.3	4.50	POM-DI  POM-LFI  BR	SS304 or Carbon steel	-	-
<b>K600</b>	152.4	6.00	POM-DI  POM-LFI  BR	SS304 or Carbon steel	-	-

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

NON STANDARD

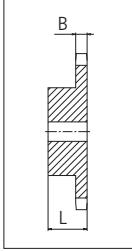
STRAIGHT RUNNING

PITCH 19.1 MM/0.75 IN



## Sprocket

No of teeth	Pitch diameter		Hub diameter		Overall width L		Tooth width B		Bore		Machined S1045
	mm	in	mm	in	mm	in	mm	in	mm	in	
Z19	115.7	4.56	80.0	3.15	35.0	1.38	11.7	0.46	16.0	0.63	x
Z20	121.8	4.79	80.0	3.15	35.0	1.38	11.7	0.46	16.0	0.63	x
Z25	152.0	5.98	90.0	3.54	40.0	1.57	11.7	0.46	20.0	0.79	x



Please ensure that sufficient size shaft and keyway are chosen for corresponding load.

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

Other sprocket sizes are available upon request.  
uni Retainer Rings: See uni Retainer Ring data sheet.

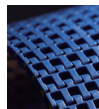
uni 1873 ST/170922



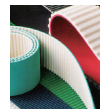
Conveyor Belts



Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

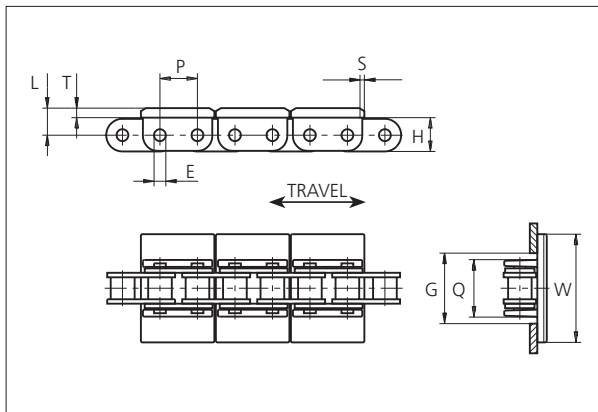


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# Snap-On Plastic Chain

Series **uni 843** Type **SK**



**Snap-On Plastic Chain**  
 Straight running chain  
 Pitch: 12.7 mm (0.50 in)  
 Backflex radius:  
 K138: 250.0 mm (9.80 in)  
 K200: 150.0 mm (5.90 in)  
 Permissible tensile strength:  
 uni 843 SK with (SS304) stainless steel chain: 1500 N (340 lbf)  
 uni 843 SK with carbon steel chain: 2000 N (450 lbf)  
 Standard shipping lengths:  
 No. of roller chain links/box:  
 240 = 6.096 m (20.0 ft)  
 No. of flights/box:  
 120 = 6.096 m (20.0 ft)

	E		G		H		L		P		Q		S		T	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
<b>K138</b>	4.0	0.16	20.5	0.81	11.5	0.45	9.1	0.36	12.7	0.50	19.1	0.75	2.0	0.08	3.2	0.13
<b>K200</b>	4.0	0.16	20.5	0.81	11.5	0.45	9.1	0.36	12.7	0.50	19.1	0.75	4.0	0.16	3.2	0.13

All dimensions are for chains in POM material.

All Snap-On versions can be delivered either with a stainless steel chain (SS304) or a carbon steel chain.

	Width (W)		Flight material & color	Chain material	Weight	
	mm	in			kg/m	lb/ft
<b>K138</b>	34.9	1.37	POM-DI <b>G</b>	<b>SS304</b> or <b>Carbon steel</b>	0.9	0.60
<b>K200</b>	50.8	2.00	POM-LFI <b>BR</b>	<b>SS304</b> or <b>Carbon steel</b>	0.9	0.60

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

STANDARD

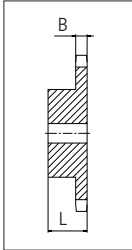
STRAIGHT RUNNING

PITCH 12.7 MM/0.50 IN



## Sprocket

No. of teeth	Pitch diameter		Hub diameter		Overall width L		Tooth width B		tBore	
	mm	in	mm	in	mm	in	mm	in	mm	in
<b>Z18</b>	73.1	2.88	56.0	2.20	28.0	1.10	7.2	0.28	12.0	0.47
<b>Z25</b>	101.3	3.99	70.0	2.76	28.0	1.10	7.2	0.28	14.0	0.55



**Please ensure that sufficient size shaft and keyway are chosen for corresponding load.**

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

Other sprocket sizes are available upon request  
uni Retainer Rings: See uni Retainer Ring data sheet

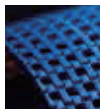
uni 843 SK/160621



Conveyor Belts



Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

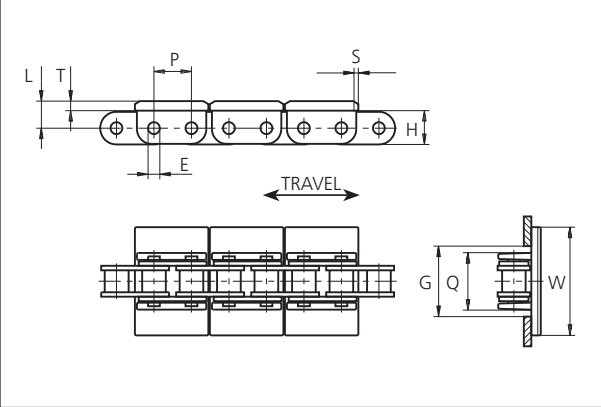


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# Snap-On Plastic Chain

Series **uni 843** Type **SKR**



**Snap-On Plastic Chain**  
 Straight running chain  
 Pitch: 12.7 mm (0.50 in)  
 Backflex radius:  
 K138: 250.0 mm (9.80 in)  
 K250: 150.0 mm (5.90 in)  
 Permissible tensile strength:  
 SS304: 1500 N (340 lbf)  
 carbon steel: 2000 N (450 lbf)  
  
 Standard shipping lengths:  
 No. of roller chain links/box:  
 240 = 6.096 m (20.0 ft)  
 No of flights/box:  
 120 = 6.096 m (20.0 ft)

	E		G		H		L		P		Q		S		T	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
<b>K138</b>	4.0	0.16	20.5	0.81	11.5	0.45	9.1	0.36	12.7	0.50	19.1	0.75	R3.0	0.12	3.2	0.13
<b>K250</b>	4.0	0.16	20.5	0.81	11.5	0.45	9.1	0.36	12.7	0.50	19.1	0.75	R3.0	0.12	3.2	0.13

All dimensions are for chains in POM material.

All Snap-On versions can be delivered either with a stainless steel chain (SS304) or a carbon steel chain.

	Width (W)		Recommended flight material & color	Recommended chain material	Weight	
	mm	in			kg/m	lb/ft
<b>K138</b>	34.9	1.37	POM-DI <b>G</b>	SS304 or Carbon steel	0.9	0.60
<b>K250</b>	63.5	2.50	POM-LFI <b>BR</b>	SS304 or Carbon steel	0.9	0.60

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

NON STANDARD

STRAIGHT RUNNING

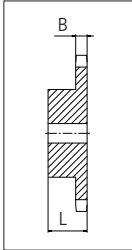
PITCH 12.7 MM/0.50 IN





## Sprocket

No. of teeth	Pitch diameter		Hub diameter		Overall width L		Tooth width B		tBore	
	mm	in	mm	in	mm	in	mm	in	mm	in
<b>Z18</b>	73.1	2.88	56.0	2.20	28.0	1.10	7.2	0.28	12.0	0.47
<b>Z25</b>	101.3	3.99	70.0	2.76	28.0	1.10	7.2	0.28	14.0	0.55



**Please ensure that sufficient size shaft and keyway are chosen for corresponding load.**

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

Other sprocket sizes are available upon request  
uni Retainer Rings: See uni Retainer Ring data sheet

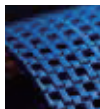
uni 843 SKR/160624



Conveyor Belts



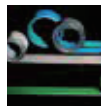
Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

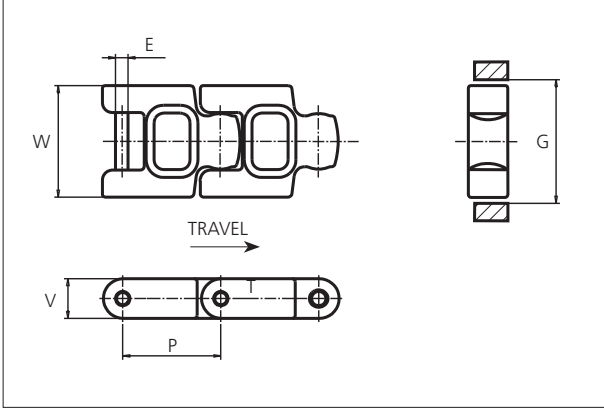


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# Special Plastic Chain

Series **uni 3200** Type -



**Special Plastic Chain**  
 Straight running chain  
 Pitch: 50.8 mm (2.00 in)  
 Backflex radius:  
 60.0 mm (2.40 in)  
 Permissible tensile strength:  
 POM material:  
 3150 N (708 lbf)  
  
 Standard shipping lengths:  
 boxes of 120 links  
 = 6.096 m (20.0 ft)

STANDARD

E		G		P		V	
mm	in	mm	in	mm	in	mm	in
6.4	0.25	59.5	2.34	50.8	2.00	20.3	0.80

All dimensions are for chains in POM material.

Width (W)		Material & color	Pin material	Weight	
mm	in			kg/m	lb/ft
57.2	2.25	POM-DI <b>G</b>	<b>SS304</b>	57.2	2.25


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

STRAIGHT RUNNING

PITCH 50.8 MM/2.00 IN

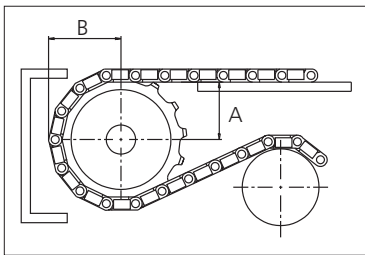


## Sprocket

No of teeth	Pitch diameter		Overall-diameter		Min. $\phi$ bore		Max. $\phi$ bore		Hub-diameter		Dimension A		Dimension B		 Machined PAG
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
<b>Z8</b>	132.9	5.23	134.0	5.30	19.1	0.80	40.0	1.60	65.0	2.60	51.2	2.00	79.6	3.10	✓
<b>Z10</b>	164.5	6.48	160.0	6.30	19.1	0.80	40.0	1.60	65.0	2.60	68.0	2.70	92.4	3.60	✓
<b>Z10</b>	164.5	6.48	160.0	6.30	40.0	1.60	70.0	2.80	120.0	4.70	68.0	2.70	92.4	3.60	✓
<b>Z12</b>	194.4	7.65	204.0	8.00	19.1	0.80	40.0	1.60	65.0	2.60	84.7	3.30	108.4	4.30	✓
<b>Z12</b>	194.4	7.65	204.0	8.00	40.0	1.60	70.0	2.80	120.0	4.70	84.7	3.30	108.4	4.30	✓
<b>Z15</b>	244.4	9.62	250.0	9.80	19.1	0.80	40.0	1.60	65.0	2.60	109.4	4.30	132.4	5.20	✓
<b>Z15</b>	244.4	9.62	250.0	9.80	40.0	1.60	70.0	2.80	120.0	4.70	109.4	4.30	132.4	5.20	✓

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

### Machined sprocket



Please ensure that sufficient size shaft and keyway are chosen for corresponding load.

Other sprocket sizes are available upon request  
Width of tooth: 25.0 mm/1.00 in  
Width of sprocket: 42.3 mm/1.70 in  
uni Retainer Rings: See uni Retainer Ring data sheet

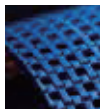
uni 3200/160621



Conveyor Belts



Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

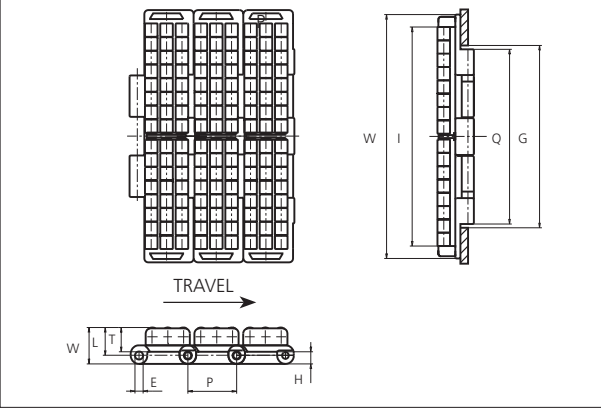


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# Special Plastic Chain

Series **uni 821** Type **PRR**



**Special Plastic Chain**  
 Straight running chain  
 Pitch: 38.1 mm (1.50 in)  
 Backflex radius: 225.0 mm (8.90 in)  
 Permissible tensile strength:  
 POM material: 3000 N (674 lbf)  
  
 Standard shipping lengths:  
 boxes of 80 links  
 = 3.048 m (10.0 ft)  
  
 Axle materials for ø5.0 mm  
 (0.20 in) accumulation rollers: See  
 uni Material and Color Overview.

STANDARD

E		G		H		I (K750)		I (K1000)		I (K1200)		L		P		Q		T		V	
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
6.4	0.25	140.0	5.51	9.5	0.37	174.5	6.87	238.0	9.37	288.8	11.37	22.2	0.87	38.1	1.50	136.5	5.37	19.0	0.75	28.5	1.12

All dimensions are for chains in POM material.

	Width (W)		Base material & color	Roller material & color	Pin material	Weight	
	mm	in				kg/m	lb/ft
<b>K750</b>	190.5	7.50	POM-LF <b>BR</b>	POM-LF <b>BR</b>	<b>SS304</b>	5.1	3.43
<b>K1000</b>	254.0	10.00	-	-	-	-	-
<b>K1200</b>	304.8	12.00	POM-LF <b>BR</b>	POM-LF <b>BR</b>	<b>SS304</b>	8.3	5.58

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

STRAIGHT RUNNING


PITCH 38.1 MM/1.50 IN



## Sprocket

No. of teeth	Pitch diameter		Overall diameter		Min. ø bore		Max. ø bore		Hub diameter		Dimension A		Dimension B		 Machined PAG
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
Z19	117.3	4.62	117.0	4.61	20.0	0.79	70.0	2.76	0	0	58.7	2.31	64.5	2.54	✓
Z21	129.2	5.09	130.0	5.12	20.0	0.79	70.0	2.76	0	0	65.0	2.56	70.5	2.78	✓
Z23	141.2	5.56	142.0	5.59	20.0	0.79	70.0	2.76	0	0	71.2	2.80	76.5	3.01	✓
Z25	153.2	6.03	155.0	6.10	20.0	0.79	70.0	2.76	0	0	77.4	3.05	82.5	3.25	✓
Z27	165.2	6.50	167.0	6.57	20.0	0.79	100.0	3.93	0	0	83.6	3.29	88.5	3.48	✓
Z29	177.2	6.98	179.0	7.05	20.0	0.79	110.0	4.33	0	0	89.8	3.54	94.6	3.72	✓
Z31	189.3	7.45	192.0	7.56	20.0	0.79	120.0	4.72	0	0	95.9	3.78	100.6	3.96	✓

## Two part sprocket

No. of teeth	Pitch diameter		Overall diameter		Min. ø bore		Max. ø bore		Hub diameter		Dimension A		Dimension B		 Molded PAG
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
Z25	153.2	6.03	155.0	6.10	30.0	1.18	40.0	1.57	58.0	2.28	77.4	3.05	82.5	3.25	✓

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

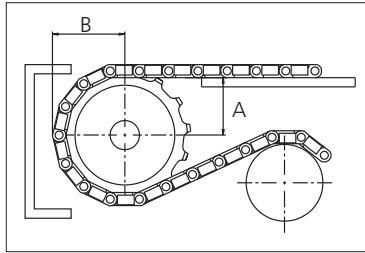
### Cast iron sprocket



### Machined sprocket



### Molded two part sprocket



Please ensure that sufficient size shaft and keyway are chosen for corresponding load.

Other sprocket sizes are available upon request

Width of tooth: 79.4 mm/3.13 in

Width of sprocket: 79.4 mm/3.13 in

uni Retainer Rings: See uni Retainer Ring data sheet

uni Idler: See uni Idler data sheet

uni Guide Rings can be mounted on cast iron and machined sprockets. See uni Guide Rings data sheet

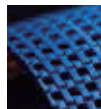
uni 821 PRR/160621



Conveyor Belts



Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

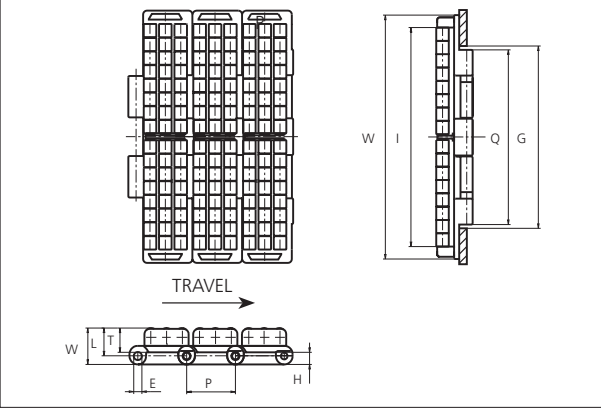


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# Special Plastic Chain

Series **uni 821** Type **PRR4**



**Special Plastic Chain**  
 Straight running chain  
 Pitch: 38.1 mm (1.50 in)  
 Backflex radius: 225.0 mm (8.90 in)  
 Permissible tensile strength:  
 POM material: 3000 N (674 lbf)  
  
 Standard shipping lengths:  
 boxes of 80 links  
 = 3.048 m (10.0 ft)  
  
 Axle materials for ø5.0 mm (0.20 in) accumulation rollers:  
 See uni Material and Color Overview.

E		G		H		I (K750)		I (K1000)		I (K1200)		L		P		Q		T		V	
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
6.4	0.25	140.0	5.51	9.5	0.37	174.5	6.87	238.0	9.37	288.8	11.37	22.2	0.87	38.1	1.50	136.5	5.37	19.0	0.75	28.5	1.12

All dimensions are for chains in POM material.

	Width (W)		Recommended base material & color	Recommended roller material & color	Recommended pin material	Weight	
	mm	in				kg/m	lb/ft
<b>K750</b>	190.5	7.50	POM-LF <b>BR</b>	POM-D <b>K</b>	<b>SS304</b>	6.9	4.64
<b>K1000</b>	254.0	10.00	POM-LF <b>BR</b>	POM-D <b>K</b>	<b>SS304</b>	8.8	5.91
<b>K1200</b>	304.8	12.00	POM-LF <b>BR</b>	POM-D <b>K</b>	<b>SS304</b>	10.2	6.85

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


NON STANDARD

STRAIGHT RUNNING


PITCH 38.1 MM/1.50 IN



### Sprocket

No. of teeth	Pitch diameter		Overall diameter		Min. ø bore		Max. ø bore		Hub diameter		Dimension A		Dimension B		Molded Cast Iron	Machined PA6 
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		
Z19	117.3	4.62	117.0	4.61	20.0	0.79	70.0	2.76	0	0	58.7	2.31	64.5	2.54	✓	✓
Z21	129.2	5.09	130.0	5.12	20.0	0.79	70.0	2.76	0	0	65.0	2.56	70.5	2.78	✓	✓
Z23	141.2	5.56	142.0	5.59	20.0	0.79	70.0	2.76	0	0	71.2	2.80	76.5	3.01	✓	✓
Z25	153.2	6.03	155.0	6.10	20.0	0.79	70.0	2.76	0	0	77.4	3.05	82.5	3.25	✓	✓
Z27	165.2	6.50	167.0	6.57	20.0	0.79	100.0	3.93	0	0	83.6	3.29	88.5	3.48	✓	✓
Z29	177.2	6.98	179.0	7.05	20.0	0.79	110.0	4.33	0	0	89.8	3.54	94.6	3.72	✓	✓
Z31	189.3	7.45	192.0	7.56	20.0	0.79	120.0	4.72	0	0	95.9	3.78	100.6	3.96	✓	✓

### Two part sprocket

No. of teeth	Pitch diameter		Overall diameter		Min. ø bore		Max. ø bore		Hub diameter		Dimension A		Dimension B		Molded PA6 
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
Z25	153.2	6.03	155.0	6.10	30.0	1.18	40.0	1.57	58.0	2.28	77.4	3.05	82.5	3.25	✓

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

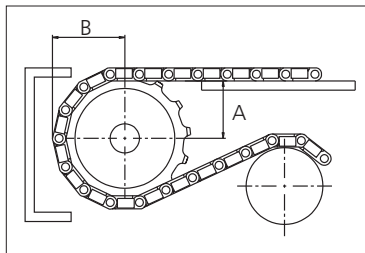
#### Cast iron sprocket



#### Machined sprocket



#### Molded two part sprocket



Please ensure that sufficient size shaft and keyway are chosen for corresponding load.

Other sprocket sizes are available upon request

Width of tooth: 79.4 mm/3.13 in

Width of sprocket: 79.4 mm/3.13 in

uni Retainer Rings: See uni Retainer Ring data sheet

uni Idler: See uni Idler data sheet

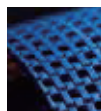
uni Guide Rings can be mounted on cast iron and machined sprockets. See uni Guide Rings data sheet



Conveyor Belts



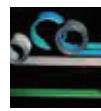
Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

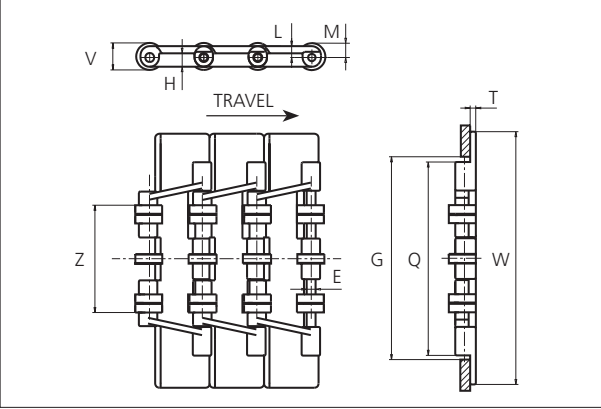
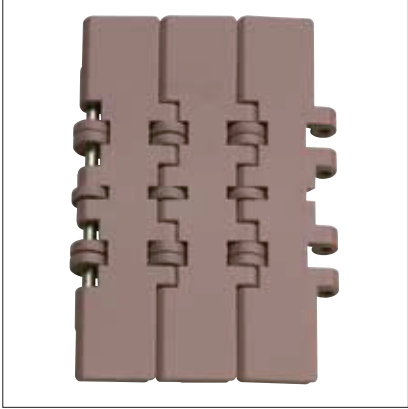


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# Special Plastic Chain

Series **uni 821** Type **RO**



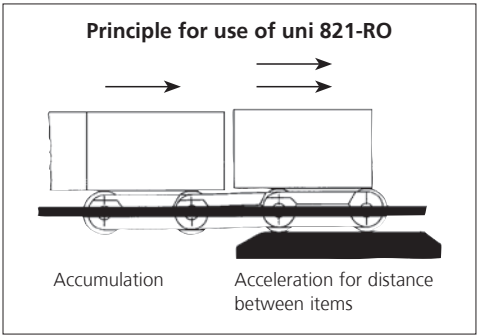
**Special Plastic Chain**  
 Straight running chain  
 Pitch: 38.1 mm (1.50 in)  
 Backflex radius:  
 75.0 mm (3.00 in)  
 Permissible tensile strength:  
 POM material:  
 2500 N (562 lbf)  
  
 Standard shipping lengths:  
 boxes of 80 links  
 = 3.048 m (10.0 ft)

E		G		H		L		M		P		Q		T		V		Z	
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
6.4	0.25	140.0	5.51	9.5	0.37	8.0	0.31	9.5	0.37	38.1	1.50	136.5	5.37	5.0	0.20	19.0	0.75	75.0	2.95

All dimensions are for chains in POM material.

	Width (W)		Recommended material & color	Recommended roller material & color	Recommended pin material	Weight	
	mm	in				kg/m	lb/ft
<b>K750</b>	190.5	7.50	POM-LF <b>BR</b>	POM-LF <b>BR</b>	<b>SS304</b>	2.6	1.75

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



NON STANDARD


STRAIGHT RUNNING

PITCH 38.1 MM/1.50 IN



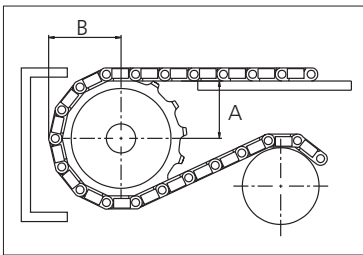


## Sprocket

No. of teeth	Pitch diameter		Overall diameter		Min. ø bore		Max. ø bore		Hub diameter		Dimension A		Dimension B		 Machined PAG
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
Z21	129.2	5.09	130.0	5.12	18.0	0.71	70.0	2.76	0	0	65.0	2.56	71.8	2.83	✓

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

### Molded sprocket



**Please ensure that sufficient size shaft and keyway are chosen for corresponding load.**

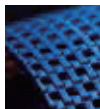
Other sprocket sizes are available upon request  
 Width of tooth: 13.8 mm/0.54 in  
 Width of sprocket: 135.0 mm/5.30 in  
 uni Retainer Rings: See uni Retainer Ring data sheet



Conveyor Belts



Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

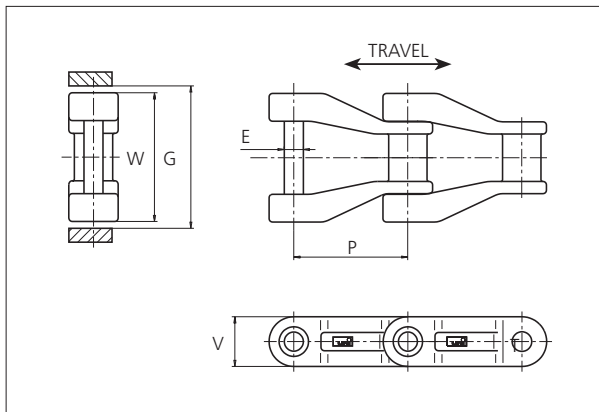


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# Special Plastic Chain

Series **uni NH78** Type -



**Special Plastic Chain**  
 Straight running chain  
 Pitch: 66.3 mm (2.61 in)  
 Backflex radius: 75 mm (3 in)  
 Permissible tensile strength:  
 T1: (POM) 9000 N\* (2023 lbf)  
 T2: (POM) 7000 N (1574 lbf)  
 T3: (POM) 6000 N (1349 lbf)  
 T4: (POM) 6000 N (1349 lbf)  
 T5: (POM) 5000 N (1124 lbf)  
 \* For PA6: 7000 N (1574 lbf)

Standard shipping lengths:  
 boxes of 92 links = 6.100 m  
 (20.0 ft)

E		G		P		V	
mm	in	mm	in	mm	in	mm	in
11.0	0.43	78.0	3.07	66.3	2.61	28.6	1.13

All dimensions are for chains in POM material.

## Standard material & colors

	Width (W)		Material & color	Pin material	Pin fixing	Pin ø		Weight	
	mm	in				mm	in	kg/m	lb/ft
<b>uni NH78 T1</b>	74.0	2.91	POM-LF <b>BR</b> POM-D <b>G</b>	<b>SS304</b>	Staked	11.0	0.43	2.1	1.41

## Non Standard material & colors

	Width (W)		Material & color	Pin material	Pin fixing	Pin ø		Weight	
	mm	in				mm	in	kg/m	lb/ft
<b>uni NH78 T1</b>	74.0	2.91	POM-D <b>G</b>	<b>SS304</b>	Staked	11.0	0.43	2.1	1.41
<b>uni NH78 T2</b>	74.0	2.91	PBT-GR <b>K</b> PA6-GF <b>K</b>	<b>SS304</b>	Staked	11.0	0.43	2.1	1.41
<b>uni NH78 T3</b>	74.0	2.91	PA6-GF <b>K</b>	<b>SS304</b>	Staked (PE sleeve)	10.0	0.39	2.1	1.41
<b>uni NH78 T4</b>	74.0	2.91	PA6-GF <b>K</b>	<b>SS304</b>	Cotterpin (PE sleeve)	10.0	0.39	2.1	1.41
<b>uni NH78 T5</b>	74.0	2.91	PP-AR <b>N</b>	<b>SS304</b>	Staked	11.0	0.43	2.1	1.41


STANDARD

STRAIGHT RUNNING

PITCH 66.3 MM/2.61 IN

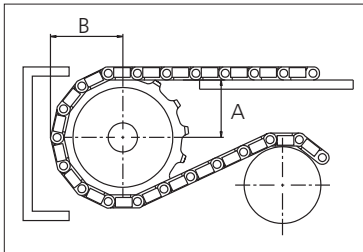


## Sprocket

No. of teeth	Pitch diameter		Overall-diameter		Min. ø bore		Max. ø bore		Hub-diameter		A-dimension		B-dimension		 Machined PA6
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
<b>Z6</b>	132.6	5.22	137.4	5.40	20.0	0.80	40.0	1.60	65.0	2.60	43.1	1.70	80.6	3.20	✓
<b>Z8</b>	173.3	6.82	182.6	7.20	20.0	0.80	40.0	1.60	65.0	2.60	65.8	2.60	100.9	4.00	✓
<b>Z10</b>	214.5	8.44	226.6	8.90	20.0	0.80	50.0	2.00	73.5	2.90	87.7	3.50	121.6	4.80	✓

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

### Machined sprocket



Please ensure that sufficient size shaft and keyway are chosen for corresponding load.

Other sprocket sizes are available upon request  
 Width of tooth: 15.8 mm/0.62 in  
 Width of sprocket: 42.3 mm/1.67 in  
 uni Retainer Rings: See uni Retainer Ring data sheet

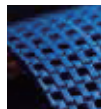
uni NH78/160621



Conveyor Belts



Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

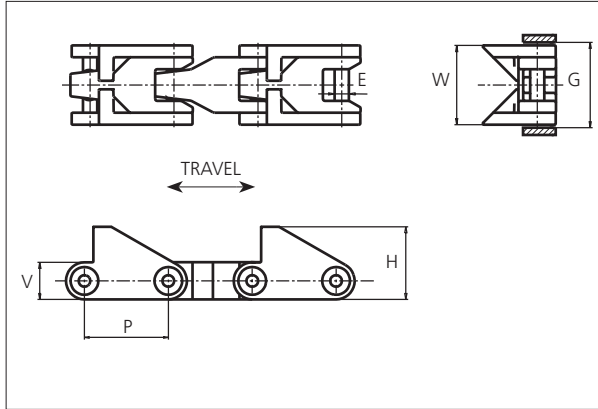


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# uni Flex Plastic Chain

Series **uni 2600** Type **CV**



**uni Flex Plastic Chain**  
 Straight running  
 Pitch: 63.5 mm (2.50 in)  
 Backflex radius: 75.0 mm (3.00 in)  
 Permissible tensile strength:  
 POM material: 6000 N (1349 lbf)  
 The product supports can be placed no closer than every other pitch (127.0 mm or 5.00 in)  
 Standard shipping lengths:  
 boxes of 96 links  
 = 6.096 m (20.0 ft)

NON STANDARD

E		G		H		P		V	
mm	in	mm	in	mm	in	mm	in	mm	in
11.0	0.43	64.0	2.52	55.0	2.17	63.5	2.50	28.4	1.12

All dimensions are for chains in POM material.

Nominal width (W)		Recommended Material & color	Recommended Pin material	Weight	
mm	in			kg/m	lb/ft
61.5	2.42	POM-D <b>W</b>	<b>SS304</b>	2.1	1.41

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

STRAIGHT RUNNING

PITCH 63.5 MM/2.50 IN



## Sprocket

No of teeth	Pitch diameter		Overall-diameter		Min. $\phi$ bore		Max. $\phi$ bore		Hub-diameter		Dimension A		Dimension B		Molded PA6	Molded Cast iron	Machined SS304
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in			
Z6	127.0	5.00	128.0	5.04	20.0	0.79	40.0	1.57	63.0	2.48	40.8	1.61	78.1	3.07	✓	✓	
Z8	165.9	6.53	168.9	6.65	20.0	0.79	50.0	1.97	73.5	2.89	62.5	2.46	97.5	3.84	✓	✓	✓
Z10	205.5	8.09	210.5	8.29	20.0	0.79	50.0	1.97	73.5	2.89	83.5	3.29	117.2	4.61	✓	✓	
Z11	225.4	8.87	231.4	9.11	20.0	0.79	50.0	1.97	73.5	2.89	93.9	3.70	127.1	5.00	✓	✓	

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

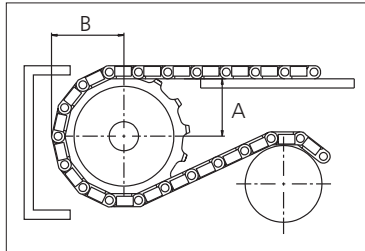
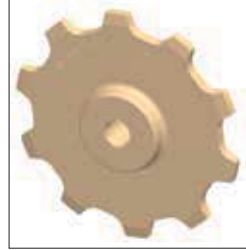
### Machined sprocket



### Cast iron sprocket



### SS304 sprocket



Please ensure that sufficient size shaft and keyway are chosen for corresponding load.

Other sprocket sizes are available upon request

Width of tooth: 11.0 mm/0.43 in

Width of sprocket: 42.3 mm/1.66 in

uni Retainer Rings: See uni Retainer Ring data sheet

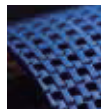
uni 2600 CV/161031



Conveyor Belts



Seamless Belts



Modular Belts



Timing Belts



Transmission Belts

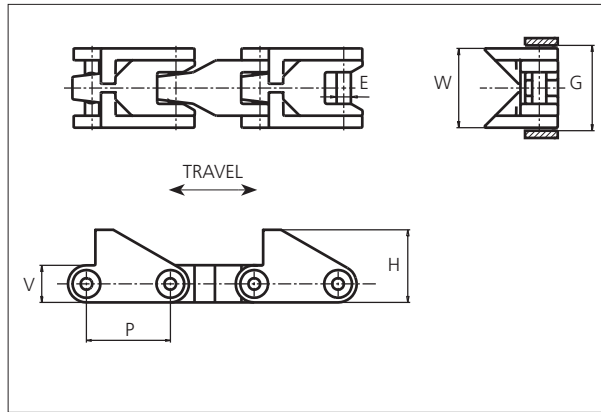


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# uni Flex Plastic Chain

Series **uni 2600** Type **OV**



**uni Flex Plastic Chain**  
 Straight running  
 Pitch: 63.5 mm (2.50 in)  
 Backflex radius:  
 75.0 mm (3.00 in)  
 Permissible tensile strength:  
 POM material:  
 6000 N (1349 lbf)  
  
 Standard shipping lengths:  
 boxes of 96 links  
 = 6.096 m (20.0 ft)

NON STANDARD

E		G		H		P		V	
mm	in	mm	in	mm	in	mm	in	mm	in
11.0	0.43	64.0	2.25	55.0	2.17	63.5	2.50	28.4	1.12

All dimensions are for chains in POM material.

Nominal width (W)		Recommended Material & color	Recommended Pin material	Weight	
mm	in			kg/m	lb/ft
61.5	2.42	POM-D <b>W</b>	<b>SS304</b>	2.0	1.34

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

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

STRAIGHT RUNNING

PITCH 63.5 MM/2.50 IN



## Sprocket

No of teeth	Pitch diameter		Overall-diameter		Min. $\phi$ bore		Max. $\phi$ bore		Hub-diameter		Dimension A		Dimension B		Molded PA6	Molded Cast iron	Machined SS304
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in			
Z6	127.0	5.00	128.0	5.04	20.0	0.79	40.0	1.57	63.0	2.48	40.8	1.61	78.1	3.07	✓	✓	
Z8	165.9	6.53	168.9	6.65	20.0	0.79	50.0	1.97	73.5	2.89	62.5	2.46	97.5	3.84	✓	✓	✓
Z10	205.5	8.09	210.5	8.29	20.0	0.79	50.0	1.97	73.5	2.89	83.5	3.29	117.2	4.61	✓	✓	
Z11	225.4	8.87	231.4	9.11	20.0	0.79	50.0	1.97	73.5	2.89	93.9	3.70	127.1	5.00	✓	✓	

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

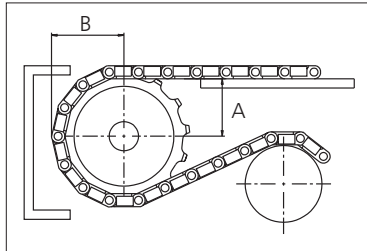
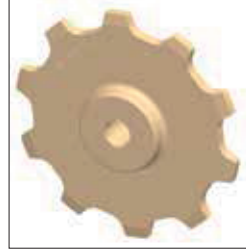
### Machined sprocket



### Cast iron sprocket



### SS304 sprocket



Please ensure that sufficient size shaft and keyway are chosen for corresponding load.

Other sprocket sizes are available upon request

Width of tooth: 11.0 mm/0.43 in

Width of sprocket: 42.3 mm/1.66 in

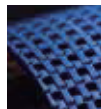
uni Retainer Rings: See uni Retainer Ring data sheet



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# uni Material and Color Overview






## Colors and Materials



 LB	Light Blue		Yellow		Grey
 B	Blue	 O	Orange		Dark Grey
 DB	Dark Blue	 B	Brown		Extra Grey
	Purple		Tan		Black
	Red		Ivory		Natural
 DD	Dark Red		White		
	Dark Green		Light Grey		







Material	Density g/cm <sup>3</sup>	Color	Description
POM	1.41		POM is a thermoplastic material with very good mechanical and thermal properties. The material can also be characterized by great strength, stiffness and dimensional stability. POM is resistant to a wide selection of chemicals. POM has good bearing qualities, low coefficient of friction and good resistance to wear.
POM-D	1.41		POM polymers with self-lubricating components.
POM-DI	1.41		POM polymers with self-lubricating components and improved impact resistance.
POM-DK	1.41		POM-DK is a reinforced POM polymer designed for applications where high wear resistance is needed and/or high conveyor speeds are required. The material is typically used for wear parts on sideflexing belts or in applications where very high wear resistance is required.
POM-LF	1.41		POM polymers with improved self-lubricating components.
POM-SLF	1.41		POM polymers with self-lubricating additives to obtain the lowest possible coefficient of friction.
POM-NL	1.41		POM polymers with no lubricant suitable for applications where one wants to ensure that lubricity is not interfering with either the product adhesion bonding or altering the chemical nature of the product.

Material	Density g/cm <sup>3</sup>	Color	Description
POM-DAS	1.40		Antistatic POM with self-lubricating components is used in applications where you want to avoid build-up of the surface static electricity. POM-DAS is normally used for manrider belts avoid to discomfort due to static electricity; it can also be used in applications where sticking of products must be avoid. Eg. products wrapped in plastic foil.
POM-NLAS	1.41		A non-lubricated antistatic POM, used in applications where static electricity must be avoid, due to human comfort, but where lubricants must be avoid, due to specific processes.
POM-S	1.39		POM polymers that contain low noise components, mainly used for the new uni Snap Link® without pins.
POM-SI	1.40		High impact-resistant POM polymers that contain low noise components, mainly used for the new uni Snap Link® without pins.
POM-SX	1.44		POM polymers with self-lubricating components. POM-SX will be the right solution where lower friction, higher load and lower noise (compared to standard POM) are required. POM-SX will mainly be used for high load capacity uni Snap Link® without pins.  <i>Please note that POM-SX blue is not according to the standard color quality for blue. Small variations may occur.</i>
POM-EC	1.39		Electrically conductive POM is normally used in explosive areas where sparks and static must be avoided, such as areas with filling aerosol, camping gas, or the like. uni-chains standard EC holds a surface resistivity $\leq 1 \times 10^6$ Ohm according to IEC 60093/ASTM D257.
POM-MD	1.47		POM-MD is a metal detectable polyoxymethylene, which mainly are used for belts to increase food safety. Possible belt breakages might lead to product contamination, which can be detected by use of this material.
POM-XRD	1.75		POM-XRD is an X-ray detectable polyoxymethylene, which mainly are used in belts to increase food safety. Possible belt breakages might lead to product contamination, which can be detected by use of this material. POM-XRD is especially suitable for products were the food packaging is metalliferous, like tinfoil and metal lids.


Material	Density g/cm <sup>3</sup>	Color	Description
PP	0.91		Polypropylene is a thermoplastic material with very good chemical resistance properties. PP is an economical material for applications with high temperatures.
PP-I	0.91		Polypropylene with improved impact resistance and improved properties at low temperatures. Use of PP-I in hot water should be avoided.
PP-MI	0.97		PP-MI is a metal detectable polypropylene, which mainly are used for belts to increase food safety. Possible belt breakages might lead to product contamination, which then can be detected by use of this material.
PP-HW	0.90		PP-HW is a polypropylene which contains additives that reduce decomposition of olefinic material over time due to oxidization caused by metal ions in hot water applications like blanchers and cookers.
PP-AR	1.14		A glass filled homopolymer that is an acid resistant material which is used where very high chemical resistance is required.
PP-FREC	1.22		PP-FREC is a polypropylene based compound with both flame retardant and electrically conductive properties. The material holds a surface resistivity of $1 \times 10^3$ Ohm according to IEC60093/ASTM D257 and it is V0 rated according to UL94 at 3.2 mm.


Material	Density g/cm <sup>3</sup>	Color	Description
PE	0.96		Polyethylene is used in low temperature applications and where high impact resistance is required.
PE-I	0.95		Polyethylene with improved impact resistance.
PE-MI	1.02		PE-MI is a metal detectable polyethylene, which mainly are used in belts to increase food safety. Possible belt breakages might lead to product contamination, which can be detected by use of this material.



Material	Density g/cm <sup>3</sup>	Color	Description
PBT	1.31		PBT is a polybutylene terephthalate material. This material has good friction and wear properties as well as excellent hardness and stiffness.
PBT-GR	1.45		Glass reinforced polyester is a material with an extremely high resistance to wear and heat.


Material	Density g/cm <sup>3</sup>	Color	Description
PA6-FR	1.16		Flame retardant polyamide is a fire restricting material used in surroundings where there is a danger of the chain being ignited. The PA6-FR material is rated as V-0 which is the best classification according to UL 94 standard to avoid burning.
PA6	1.13		Polyamide PA6 is a thermoplastic material. The combination of mechanical properties and chemical resistance makes this material suitable for many applications. Polyamide has a high resistance to wear and dynamic loads. This material is primarily used for sprockets.
PA6-GF	1.28		This polyamide is reinforced with glass fiber. PA6-GF will be the right solution where higher stiffness and higher strength are required, compared to standard polyamide. The combination of mechanical properties and chemical resistance makes this material suitable for many applications. Polyamide has a high resistance to wear and dynamic loads. Polyamide also has a larger working temperature range.
PA6.6	1.13		Polyamide PA6.6 is a thermoplastic material with many fine properties. The material has a high resistance to wear, high strength and great stiffness. Furthermore, polyamide has a wide temperature range.
PA6.6-H	1.14		PA6.6-H is a polyamide with the same properties as PA6.6. PA6.6-H improves upon PA6.6 in applications where higher temperature resistance is needed (e.g. shrink tunnels).
PA6.6-GFH	1.35		PA6.6-GFH is a special heat-stabilized polyamid PA6.6 with glass fiber reinforcement. The base material is still the PA6.6 with its important properties, as high strength and great stiffness. The base material has a high resistance to wear, and the glass fiber contributes to increase these properties. The unique PA6.6-GFH is heat resistant, and thus especially suitable for applications that are exposed to strong heat for extended time periods.

*Note: PA materials will absorb water in wet environments which will cause expansion of the dimension with approx. 1-2%, depending on the temperature level and the humidity of the air. This is valid for all polyamide variations.*

Material	Density g/cm <sup>3</sup>	Color	Description
PVDF	1.78		Polyvinylidenfluoride is characterized by an especially high chemical resistance. Furthermore, PVDF has high wear resistance and good friction properties.

Material	Density g/cm <sup>3</sup>	Color	Description
PC	1.20		Polycarbonate is characterized by being extremely impact resistant, even at low temperatures. The natural colour of PC is grey.

Material	Density g/cm <sup>3</sup>	Color	Description
POX-FREC	1.34		POX-FREC is a relatively strong material with both flame retardant and electrically conductive properties. The material holds a surface resistivity of $1 \times 10^3$ Ohm according to IEC60093/ASTM D257 and it is V0 rated according to UL94 at 3 mm.  Several products made of POX-FREC are B1 fire rated according to DIN 4102.
POX-FR	1.15		POX-FR is flame retardant material with high strength and very good wear resistance. The POX-FR material is B1 fire rated according to DIN 4102, for some products.

Material	Density g/cm <sup>3</sup>	Color	Description
NBWR	1.22		NBWR is material with extremely high impact strength and very good wear resistance. The material is resistant towards UV light and ozone cracking, which makes it suitable for outdoor applications. NBWR is a very good noise-absorbing material as well.

UV-additives	Description
UV-A/B	The UV-A/B stabilizer is an additive recommended for plastic materials used for outdoor applications. The UV-A/B stabilizer is able to protect materials against direct sunlight, is FDA approved and will increase the lifetime of plastic materials. The UV-A/B stabilizer is available for the most common materials such as POM, PP and PE.
UV-C	This UV-C stabilizer is specially developed for applications that are exposed to UV-C light. The special UV-C lights are used in the meat industry, where UV-C light is served to kill bacteria and microbes. The UV-C stabilizer holds an FDA approval and will increase the lifetime of the plastic material. This solution is only available in combination with POM material.

## Expansion due to water absorption

All plastic materials absorb water from the surroundings, but very often it is not a major factor, except when dealing with Nylon (PA) material. With Nylon there can be a considerable change in dimension depending on the environment where the part is placed. The absorption of water causes the plastic part to swell and thus leads to a volume increase. The chart below shows the dimensional expansion of different materials due to moisture absorption (ISO 62 / ASTM D570 is based on changes in mass).

Code	Water Absorption ISO 62 / ASTM D570		Linear Dimensional Expansion Water Absorption	
	Equilibrium 23°C / 50% RH (%)	Saturation 23°C (%)	Equilibrium 23°C / 50% RH (%)	Saturation 23°C (%)
PP	0.02	0.03	0.01	0.01
PE	0.02	0.03	0.01	0.01
POM	0.22	0.8	0.1	0.37
PA6	2.8	8 – 10	1.05	3 – 3.8
PA6.6	2.5	7 – 8.5	0.95	2.7 – 3.2
PA6.6-GFH	2.0	6.0	0.8	2.36
PBT	0.2	0.5	0.09	0.22
PBT-GR	0.15	0.4	0.07	0.19
NBWR	0.2	0.6	0.08	0.24

Please note that the expansion shown above does not necessarily translate into belt/chain dimensions as there are many other factors involved.

## Expansion due to temperature

Coefficient of linear thermal expansion between 23 and 55 °C		
Material	$\frac{\text{mm}}{\text{m} \times \text{°C}}$	$\frac{\text{in}}{\text{ft} \times \text{°F}}$
POM	0.12	0.0008
PP	0.13	0.0009
PE	0.18	0.0012
PA6/PA6.6	0.11	0.0007
PBT	0.11	0.0007

$$\Delta L = L \times e_c \times (T_2 - T_1)$$

$\Delta L$ : Length/width expansion, mm (in)

L: Length/width of belt at temperature T1, m (ft)

T2: Working temperature, °C (°F)

T1: Start temperature, 23°C (73.4°F)

$e_c$ : Coefficient of linear thermal expansion. See table above.

## Friction

Values provided in the tables below are dynamic coefficient of friction under clean conditions. Values will normally be 0.1 to 0.2 higher at the starting moment.

Material	PE Dry	PE Wet	Lubricated PE Dry	Lubricated PA Dry	Stainless steel Dry	Stainless steel Wet
POM-NL	0.20	0.15	0.12	0.22	0.25	0.21
POM-D	0.19	0.14	0.12	0.21	0.24	0.20
POM-LF	0.18	0.13	0.12	0.20	0.23	0.19
POM-SLF	0.17	0.12	0.12	0.19	0.22	0.18
POM-SX	0.15	0.10	0.11	0.17	0.20	0.16
PP	0.25	0.20	0.15	0.28	0.30	0.27
PP-AR	0.26	0.22	0.18	0.28	0.32	0.27
PE	0.25	0.20	0.15	0.22	0.25	0.20
PA6/6.6	0.20	n/a	0.15	0.22	0.30	n/a
PA6.6-GFH	0.26	n/a	0.18	0.24	0.30	n/a

## Compounds and Polymer Materials

Polymers and compounds	Temperature range in atmospheric air		Load index <sup>1)</sup>	Food Grade <sup>5)</sup>
	°C	°F		
POM – Polyoxymethylene (D, DI, LF, LFI, SLF, SLFI, S, SI, SX and NL)	-40 to 90	-40 to 194	100	✓
POM DK – Wear-resistant polyoxymethylen	-40 to 90	-40 to 194	100	-
POM DAS and NLAS – Antistatic polyoxymethylene	-40 to 90	-40 to 194	100	-
POM EC – Electrically conductive polyoxymethylene	-40 to 90	-40 to 194	60	-
POM MD – Metal detectable polyoxymethylene	-40 to 90	-40 to 194	100	✓
POM XRD – X-ray detectable polyoxymethylene	-40 to 90	-40 to 194	100	✓
PP – Polypropylene <sup>2) 3)</sup>	1 to 104	34 to 219	50	✓
PPI – Impact-resistant polypropylene	-10 to 80	14 to 176	40	✓
PPMI – Metal-detectable polypropylene	-10 to 80	14 to 176	35	✓
PPHW – Hot water polypropylene	1 to 104	34 to 219	50	✓
PP AR – Acid resistance and glass-filled polypropylene	1 to 104	34 to 219	50	-
PP-FREC – Flame retardant and electrical conductive polypropylene	1 to 104	34 to 176	30	-
PE – Polyethylene	-50 to 80	-58 to 176	40	✓
PE I – High impact resistant polyethylene	-50 to 80	-58 to 176	30	✓
PEMI – Metal-detectable polyethylene	-50 to 80	-58 to 176	30	✓
PBT – Polyester <sup>4)</sup>	-40 to 100	-40 to 212	-	✓
PBT GR – Glass-reinforced polyester <sup>4)</sup>	-40 to 125	-40 to 257	70	-
PA6 – Polyamide	-40 to 120	-40 to 248	100	✓
PA6 GF – Glass-filled polyamide	-40 to 120	-40 to 248	100	-
PA6.6 – Polyamide	-40 to 140	-40 to 284	100	✓
PA6.6 H – Heat-stabilized polyamide	-40 to 160	-40 to 320	100	-
PA6.6 GFH – Glass-filled and heat-stabilized polyamide	-40 to 180	-40 to 356	100	✓
PA FR – Flame-retardant polyamide	-40 to 120	-40 to 248	90	-
PVDF – Polyvinylidenfluoride	-40 to 100	-40 to 212	100	✓
PC – Polycarbonate	-20 to 130	-4 to 266	50	-
POX-FREC – Flame retardant and electrically conductive material	-30 to 110	-40 to 230	65	-
POX-FR – Flame retardant material	-40 to 125	-40 to 257	100	✓
NBWR – High impact and wear-resistance material	-30 to 80	-22 to 176	30	✓

<sup>1)</sup> The load indexation values are only indicative, the geometry of the items will also have an effect. Load index is for 23°C 50%RH.

<sup>2)</sup> Avoid impact below 8°C (46.4°F)

<sup>3)</sup> Dry. In wet hot applications use PPHW

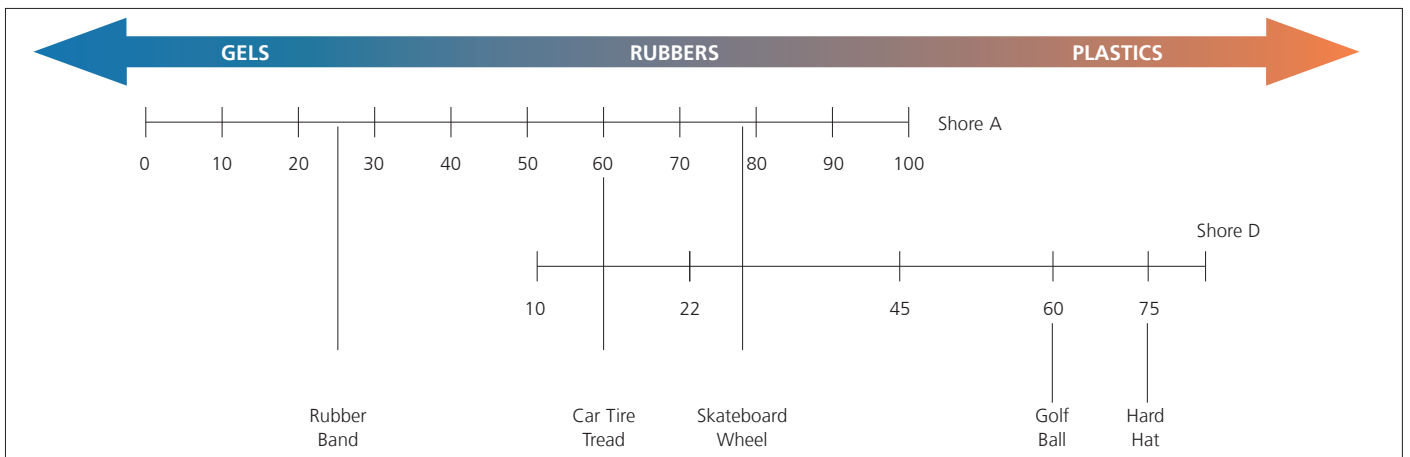
<sup>4)</sup> Max. temperature in water 60°C (140°F)

<sup>5)</sup> Not all colors are tested according to EC1935

## Elastomer Materials

Code	Type	Color	Density g/cm <sup>3</sup>	Hardness		Temperature Range		FDA	Attachment to Base Link
				Shore A	Shore D	°C	°F		
00K	TPE-O	Black	0.97	55	-	-40 to 100	-40 to 212	-	Mechanical
01N	TPE-V	Natural	0.93	64	-	-40 to 125	-40 to 257	✓	Mechanical
01K	TPE-V	Black	0.93	64	-	-40 to 125	-40 to 257	✓	Mechanical
03N	TPE-S	Natural	1.19	60	-	-40 to 80	-40 to 176	✓	Co-molding
03K	TPE-S	Black	1.19	60	-	-40 to 80	-40 to 176	✓	Co-molding
03W	TPE-S	Black	1.19	60	-	-40 to 80	-40 to 176	✓	Co-molding
03B	TPE-S	Blue	1.19	60	-	-40 to 80	-40 to 176	✓	Co-molding
04N	TPE-A	Natural	1.00	-	25	-40 to 80	-40 to 176	-	Mechanical
04K	TPE-A	Black	1.00	-	25	-40 to 80	-40 to 176	-	Mechanical
04W	TPE-A	White	1.00	-	25	-40 to 80	-40 to 176	-	Mechanical
05I	TPE-U	Ivory	1.19	85	-	-40 to 80	-40 to 176	✓	Mechanical
05K	TPE-U	Black	1.19	85	-	-40 to 80	-40 to 176	✓	Mechanical
06N	TPE-O	Natural	0.94	-	40	-40 to 70	-40 to 158	-	Mechanical
06K	TPE-O	Black	0.94	-	40	-40 to 70	-40 to 158	-	Mechanical
09N	TPE-V	Black	0.97	55	-	-40 to 125	-40 to 257	-	Mechanical
09K	TPE-V	Black	0.97	55	-	-40 to 125	-40 to 257	-	Mechanical
10W	TPE-U	White	1.22	-	60	-30 to 80	-22 to 176	✓	Mechanical
10K	TPE-U	Black	1.22	-	60	-30 to 80	-22 to 176	✓	Mechanical
10B	TPE-U	Blue	1.22	-	60	-30 to 80	-22 to 176	✓	Mechanical
11N	TPE-S	Natural	1.10	30	-	-40 to 80	-40 to 176	✓	Co-molding
11K	TPE-S	Black	1.10	30	-	-40 to 80	-40 to 176	✓	Co-molding
11B	TPE-S	Blue	1.10	30	-	-40 to 80	-40 to 176	✓	Co-molding
12K	TPE-S FR <sup>1)</sup>	Black	1.12	60	-	-40 to 104	-40 to 219	-	Co-molding
13N	TPE-U	Transparent	1.07	75	-	-30 to 70	-22 to 158	✓	Mechanical
13B	TPE-U	Blue	1.07	75	-	-30 to 70	-22 to 158	✓	Mechanical
21N	TPE-S	Natural	1.13	86	-	-40 to 104	-40 to 219	✓	Co-molding
21K	TPE-S	Black	1.13	86	-	-40 to 104	-40 to 219	✓	Co-molding
21G	TPE-S	Black	1.13	86	-	-40 to 104	-40 to 219	✓	Co-molding

<sup>1)</sup> FR = Flame Retardant





## Steels and cast Iron

Werkstoff no.	AISI or DIN	Steel type	Magnetic	Recommended Temperature Range		FDA / EC1935	Stainless sustainability
				°C	°F		
1.4305	303	Stainless Austenitic	N*	-70 to 420	-95 to 790	Y	++
1.4301	304	Stainless Austenitic	N*	-70 to 420	-95 to 790	Y	++
1.4404	316	Stainless Austenitic	N*	-70 to 420	-95 to 790	Y	+++
1.4021	420	Stainless Martensitic	Y	-70 to 420	-95 to 790	Y	+
1.4016	430	Stainless Ferritic	Y	-70 to 420	-95 to 790	N	++
1.0503	1045	Hardened Carbon Steel	Y	-70 to 500	-95 to 930	N	-
1.0122	St37-2	Carbon Steel	Y	-70 to 500	-95 to 930	N	-
1.0570	St52-3	Carbon Steel	Y	-70 to 500	-95 to 930	N	-
0.6025	GG-25	Cast Iron	Y	-20 to 250	-4 to 480	N	-

\* Machined items can be weak magnetic (AISI 316 will remain almost nonmagnetic in many cases).

## Composition (Weight %)

Werkstoff no.	AISI or DIN	Steel type	Max/min	C Carbon	Cr Chromium	Ni Nickel	Mo Molybdenum	Mn Manganese	P Phosphor	S Sulphur	N Nitrogen	Si Silicone	Cu Copper
1.4305	303	Stainless Austenitic	min	-	17	8	-	-	-	0.15	-	-	-
			max	0.1	19	10	-	2	0.045	0.35	0.1	1	1
1.4301	304	Stainless Austenitic	min	-	17	8	-	-	-	-	-	-	-
			max	0.07	19.5	10.5	-	2	0.045	0.015	0.1	1	-
1.4404	316	Stainless Austenitic	min	-	16.5	10	2	-	-	-	-	-	-
			max	0.07	18.5	13	2.5	2	0.045	0.015	0.1	1	-
1.4021	420	Stainless Martensitic	min	0.16	12	-	-	-	-	-	-	-	-
			max	0.25	14	-	-	1.5	0.04	0.015	-	1	-
1.4016	430	Stainless Ferritic	min	-	16	-	-	-	-	-	-	-	-
			max	0.08	18	-	-	1	0.04	0.015	-	1	-
1.0503	1045	Hardened Carbon Steel	min	0.42	-	-	-	0.5	-	-	-	-	-
			max	0.5	0.4	0.4	0.1	0.8	0.045	0.045	-	0.045	-
1.0122	St37-2	Carbon Steel	min	-	-	-	-	-	-	-	-	-	-
			max	0.17	-	-	-	1.4	0.045	0.045	0.009	-	-
1.0570	St52-3	Carbon Steel	min	-	-	-	-	-	-	-	-	-	-
			max	0.2	-	0.3	0.08	1.6	0.035	0.035	-	0.5	-
0.6025	GG-25	Cast Iron	min	3.0	-	-	-	0.5	0.5	-	-	1.5	-
			max	3.5	-	-	-	1	0.7	0.15	-	2.5	-

**C:** Carbon is a harmful component in all non-martensitic stainless steels, it should be kept as low as possible. For martensitic steels that are hardened, high carbon content will give a high surface hardness.

**Cr:** Chromium will together with the surrounding oxygen, create the invisible passive layer, which is the hallmark for stainless steels. It also adds to the yield strength and heat resistance, so in general will high chromium content give a better corrosion and heat resistance, plus higher yield strength.

**Ni:** Nickel toughens the steel and increases the resistance against stress corrosion cracking.

**Mo:** Molybdenum increases the corrosive resistance, especially in environments with low pH values. Furthermore it is a contributor to the passive layer, even better than chromium.

**Mn:** Manganese is in most cases a pollutant, but for some steels it is used as a cheap replacement for nickel.

**P:** Phosphor is an unwanted contaminant with negative effects regarding corrosion resistance, hence it should be kept as low as possible.

**S:** Sulphur is definitely unwanted with respects to the corrosion resistance; it can bond with manganese and form manganese sulfide (MnS), which is very corrosive. But MnS will make the steel short-chipped and give it better machine processing properties. E.g. is AISI 303 much easier to machine than AISI 304, but it is not near as corrosion resistant.

**N:** Nitrogen is a high valuable element regarding corrosion resistance; even in very low quantities it has significant positive effects. The adding of nitrogen in the steel manufacturing is a very difficult process.

**Si:** Silicone is like manganese a pollutant in most cases; it does not have any greater effect on the corrosive characteristics.

**Cu:** Copper is an element, which will increase the corrosion resistance in anaerobic and acidic environments.

Pitting corrosion is the most common type of corrosion in application where Ammeraal Beltech Modular's products will be present. Based on an empirical equation the corrosion resistance can be determined by the PREN (Pitting Resistance Equivalent Number) – The higher PREN, the better corrosion resistance.

$$\text{PREN} = 1 \times \%Cr + 3.3 \times \%Mo + 16 \times \%N$$

# Approvals

FDA Approvals	USDA Approvals	
<p><b>FDA US Food and Drug Administration</b></p> <p>US Federal Agency approves materials for use with food contact.</p> <p>The product range from Ammeraal Beltech Modular, uni-chains, holds the following FDA approved materials:</p> <ul style="list-style-type: none"> <li>• POM (D, DI, LF, NL, SLF, S, SI, MD, XRD &amp; SX)</li> <li>• PP, PPI, PPMI &amp; PPHW</li> <li>• PE, PEI &amp; PEMI</li> <li>• PBT</li> <li>• PA6.6, PA6 &amp; PA6.6 GFH</li> <li>• PVDF</li> <li>• NBWR</li> <li>• Rubber code: 01, 03, 05, 10, 11, 13 &amp; 21</li> </ul>	<p><b>US Department of Agriculture</b></p> <p>USDA evaluates and accepts products and equipment for use in the dairy, meat, and poultry industries. Belts from Ammeraal Beltech Modular, uni-chains, listed on this page are included in the USDA's Accepted Meat and Poultry Equipment book as accepted for food contact and packaged goods respectively. In addition, USDA inspectors accept belt styles on an individual plant basis.</p> <p>USDA Dairy Grading Branch has issued Equipment Acceptance Certificates for the belt types listed on this page under USDA Dairy Accepted.</p>	<p><b>USDA Dairy Approval</b></p> <ul style="list-style-type: none"> <li>• uni MPB, uni MPB G, uni MPB GE, uni MPB N, uni MPB NE, uni MPB 18%, uni MPB 20% and uni MPB 22%</li> <li>• uni CNB C, uni CNB 18% and uni CNB 22%</li> </ul>
<p><b>FDA &amp; EC1935/2004</b></p> <p>Ammeraal Beltech Modular A/S hereby declares that the materials in the belt type meet the requirements mentioned in Title 21:</p> <p>Code of Federal Regulations, issued by the FDA according to paragraph 177.2600 for all wrapped and unwrapped foodstuffs.</p> <p>The listed materials comply with the requirements:</p> <ul style="list-style-type: none"> <li>• POM D Blue, POM D White</li> <li>• POM DI Blue, POM DI Grau, POM DI White</li> <li>• POM LF Brown, POM LF Natural</li> <li>• POM SLF Blue</li> <li>• POM S Blue, POM S White</li> <li>• POM SI Blue, POM SI White</li> <li>• POM MD</li> <li>• POM XRD</li> <li>• POM SX Blue, POM SX White</li> <li>• PP Blue, PP Grau, PP White</li> <li>• PPI Blue, PPI White</li> <li>• PPMI Blue</li> <li>• PPHW Light Blue, PPHW White</li> <li>• PE Natural, PE Blue</li> <li>• PE I Blue, PE I Grey, PE I Natural, PE I Orange, PE I White</li> <li>• PEMI Blue</li> <li>• PA6.6 Blue, PA6.6 Natural, PA6.6 White</li> </ul>	<p><b>USDA Accepted Meat and Poultry Equipment (Food Contact)</b></p> <ul style="list-style-type: none"> <li>• uni SNB M2 series</li> <li>• uni OPB 4C, uni OPB 4V C, uni OPB 4V 23%, uni OPB 4V 36%, uni OPB 8C and uni OPB 8 25%</li> </ul>	<p><b>USDA Equipment Acceptance Certificate in compliance with NSF-3A-14159-003. Hygiene requirements for design of mechanical belt conveyors used in meat and poultry processing.</b></p> <p>The approval covers the following products:</p> <ul style="list-style-type: none"> <li>• uni MPB Single Link and bricklaid belts</li> <li>• uni MPB Product Supports and Side Guards</li> <li>• uni MPB Sprockets</li> <li>• uni Flex ONE</li> <li>• uni X-MPB</li> </ul>
	<p><b>USDA Accepted Meat and Poultry Equipment (Packaged Products only)</b></p> <ul style="list-style-type: none"> <li>• uni Light</li> <li>• uni SNB M2 series</li> <li>• uni OPB 4C, uni OPB 4V C, uni OPB 4V 23%, uni OPB 4V 36%, uni OPB 8C and uni OPB 8 25%</li> </ul>	



## Disclaimer

uni-chains® provides this catalogue as a service and for information purposes only. The material and contents are provided without warranty of any kind. This catalog is not intended to be used as a substitute for advice from our engineers and our official guidelines.

While we attempt to maintain the information in this catalog as accurately as possible, it may contain errors or omissions for which we deny any and all liability.

uni-chains® is not responsible for any property damage or personal injury, direct or indirect damage from failure or down time in production caused by improper equipment construction. uni-chains® cannot be held responsible for the incorrect application, operation and/or abuse of our products.

uni-chains® does not guarantee that the design and/or operational function of any equipment that incorporates uni-chains products, conforms to local, state, and/or federal regulations. Nor does uni-chains® warrant that standards relating to safety aspects such as public and worker safety, safety guards, fire and sanitation safety, or any other safety regulations are met by such equipment or products.

All users should read our "**Warnings**" and "**Design Safety Guidelines**" before using our products.

## Warnings

### Fire

uni-chains® plastic products are, unless clearly specified, made from materials which support open flame. Products made from POM material (D, I, LF and SLF), when so exposed, will emit toxic fumes. uni-chains® plastic products should therefore not be exposed to extreme temperatures or open flame. Special care should be taken when undertaking repair work particularly when welding at a conveyor if the conveyor is equipped with plastic chains or belts.

### Personal Protection

Always use safety glasses when installing or repairing chains and belts and while securing or removing pins.

Use only suitable tools in good condition.

The weight of some products calls for the use of safety shoes.

When installing/removing or repairing chains or belts on a conveyor, the motor must be turned off.

### Design Safety Guidelines

Most plastic products will lose their mechanical properties if exposed to the sun or ultraviolet beams, which can lead to chain or belt breakage. This can also happen if the products are exposed to strong chemicals. Generally, this is a problem with pH values lower than 4.5 or higher than 9.

Always make sure that there is enough space in the conveyor frame to allow chains and belts to retract or expand when exposed to temperature variations.

Never exceed the maximum or minimum temperatures given by uni-chains®.

**Note:** The different materials have different temperature limits.

Care should be taken with high chain/belt speeds at which friction can lead to heating and subsequently melting of chain/belt as well as wearstrips. Do not exceed speeds recommended by uni-chains®.

Use only original uni-chains® sprockets with uni-chains® belts and chains.

When constructing conveyors it is important to always include sufficient cover around the moving parts to prevent fingers and clothing from being caught in the machinery. uni-chains® can also supply safety chains and side flexing belts which leave minimal gaps when turning through curves making them safer than regular chains.

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tel: +370 5 239 25 25

**Mexico**

Linarand S.A. de C.V.  
tel: +52 55 5341 8131

**New Zealand**

Belts: Heat & Control Ltd.  
tel: +64 9 274 4182

Chains: Renold New Zealand Ltd.  
tel: +64 9 828 5018

**Poland**

Derco s.p. zoo  
tel: +48 022 664 3887

**Portugal**

Harker, Sumner S.A.  
tel: +351 229478090

**Romania**

Meteor Auto s.r.l.  
tel: +40 21-221 9640

**Russia**

Moscow branch:  
Megadrive Ltd.  
tel: +7 495 346-24-10

St. Peterburg branch:  
Megadrive-Spb Ltd.  
tel: +7 812 389-13-38

**South Korea**

Dongan-Ku Anyang City:  
Woo Il Trading Co.  
tel: +82 31-479-5100

**Seoul:**

JC Systems Co. Ltd.  
tel: +823-2062-0394  
uni-metals Co. Ltd.  
tel: +823 806 0330

**Spain**

CID, S.L.  
tel: +34 (91) 507 28 38

**Singapore**

uni conveyor chains Asia Pte Ltd.  
tel: +65 7498513/4

**Switzerland**

Plüss tel: +41 44 824 88 00  
Renold tel: +41 44 824 84 84

**Taiwan**

Uei Yeu Co. Ltd.  
tel: +886 2 22182201

**Turkey**

Mimsan Ithalat Ihracat Konveyör  
tel: +90 212 657 89 46

**UAE**

Tecnobelt Trading  
tel: +971 4 299 4828

**Ukraine**

UNIBELT Ltd.  
tel: +380 44 592-88-72