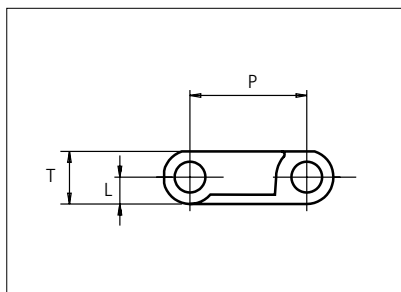




# Plastic Modular Belt

Series **uni Light** Type **Closed**



Straight running belt  
Nominal pitch: 19.1 mm (0.75 in)  
Surface type: Flat  
Surface opening: Closed  
Backflex radius: 25.0 mm (2.0 in)  
Pin diameter: 5.0 mm (0.20 in)

| Belt material & color         | POM-LF <b>BR</b> | PP <b>W</b> <b>G</b> <b>K</b> | PP <b>B</b> | PA6 <b>K</b>                   |
|-------------------------------|------------------|-------------------------------|-------------|--------------------------------|
| Pin and lock material & color | PP <b>W</b>      | PP <b>W</b>                   | PP <b>B</b> | PBT-GR <b>N</b><br>PP <b>G</b> |

|                       | mm   | in   |          | mm  | in   |
|-----------------------|------|------|----------|-----|------|
| <b>P</b><br>(Nominal) | 19.1 | 0.75 | <b>T</b> | 8.5 | 0.33 |
| <b>L</b>              | 4.3  | 0.17 | -        | -   | -    |

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

| Belt width |      | Permissible tensile force<br>(Belt/pin material) |      |       |     |            |      | Belt weight<br>(Belt/pin material) |       |       |       |            |       | *Min. No.<br>drive<br>sprocket<br>per shaft | Number of wear<br>strips (Min. No.) |                   |
|------------|------|--------------------------------------------------|------|-------|-----|------------|------|------------------------------------|-------|-------|-------|------------|-------|---------------------------------------------|-------------------------------------|-------------------|
|            |      | POM-LF/PP                                        |      | PP/PP |     | PA6/PBT-GR |      | POM-LF/PP                          |       | PP/PP |       | PA6/PBT-GR |       |                                             | **Carry<br>(pcs)                    | **Return<br>(pcs) |
| mm         | in   | N                                                | lbf  | N     | lbf | N          | lbf  | kg/m                               | lb/ft | kg/m  | lb/ft | kg/m       | lb/ft |                                             |                                     |                   |
| 58         | 2.3  | 595                                              | 134  | 297   | 67  | 595        | 134  | 0.4                                | 0.27  | 0.3   | 0.19  | 0.3        | 0.22  | 2                                           | 2                                   | 2                 |
| 77         | 3.0  | 789                                              | 177  | 395   | 89  | 789        | 177  | 0.5                                | 0.35  | 0.4   | 0.25  | 0.4        | 0.29  | 2                                           | 2                                   | 2                 |
| 115        | 4.5  | 1175                                             | 264  | 587   | 132 | 1175       | 264  | 0.8                                | 0.52  | 0.6   | 0.37  | 0.6        | 0.43  | 2                                           | 2                                   | 2                 |
| 153        | 6.0  | 1572                                             | 353  | 786   | 177 | 1572       | 353  | 1.0                                | 0.70  | 0.7   | 0.49  | 0.9        | 0.58  | 2                                           | 2                                   | 2                 |
| 230        | 9.0  | 2355                                             | 529  | 1177  | 265 | 2355       | 529  | 1.6                                | 1.05  | 1.1   | 0.74  | 1.3        | 0.86  | 2                                           | 2                                   | 2                 |
| 306        | 12.1 | 3138                                             | 705  | 1569  | 353 | 3138       | 705  | 2.1                                | 1.40  | 1.5   | 0.99  | 1.7        | 1.15  | 3                                           | 3                                   | 2                 |
| 383        | 15.1 | 3921                                             | 881  | 1960  | 441 | 3921       | 881  | 2.6                                | 1.75  | 1.8   | 1.23  | 2.1        | 1.44  | 3                                           | 3                                   | 2                 |
| 459        | 18.1 | 4704                                             | 1057 | 2352  | 529 | 4704       | 1057 | 3.1                                | 2.10  | 2.2   | 1.48  | 2.6        | 1.73  | 4                                           | 4                                   | 2                 |
| 535        | 21.1 | 5486                                             | 1233 | 2743  | 617 | 5486       | 1233 | 3.6                                | 2.45  | 2.6   | 1.73  | 3.0        | 2.01  | 4                                           | 4                                   | 2                 |
| 612        | 24.1 | 6269                                             | 1409 | 3135  | 705 | 6269       | 1409 | 4.2                                | 2.80  | 2.9   | 1.97  | 3.4        | 2.30  | 5                                           | 5                                   | 3                 |
| 688        | 27.1 | 7052                                             | 1585 | 3526  | 793 | 7052       | 1585 | 4.7                                | 3.14  | 3.3   | 2.22  | 3.9        | 2.59  | 5                                           | 5                                   | 3                 |
| 764        | 30.1 | 7835                                             | 1761 | 3918  | 881 | 7835       | 1761 | 5.2                                | 3.49  | 3.7   | 2.47  | 4.3        | 2.88  | 6                                           | 6                                   | 3                 |
| 841        | 33.1 | 8618                                             | 1937 | 4309  | 969 | 8618       | 1937 | 5.7                                | 3.84  | 4.0   | 2.71  | 4.7        | 3.16  | 6                                           | 6                                   | 3                 |

Additional standard belt widths are available in steps of 76.4 mm (3.01 in). Additional non-standard belt widths are available in steps of 19.1 mm (0.75 in).

|      |      |       |      |      |      |       |      |      |      |     |      |      |      |    |    |   |
|------|------|-------|------|------|------|-------|------|------|------|-----|------|------|------|----|----|---|
| 1910 | 75.2 | 19578 | 4401 | 9789 | 2201 | 19578 | 4401 | 13.0 | 8.73 | 9.2 | 6.16 | 10.7 | 7.19 | 13 | 13 | 7 |
|------|------|-------|------|------|------|-------|------|------|------|-----|------|------|------|----|----|---|

Additional standard belt widths are available in steps of 76.4 mm (3.01 in). Additional non-standard belt widths are available in steps of 19.1 mm (0.75 in).

|      |       |       |      |       |      |       |      |      |       |      |      |      |       |    |    |    |
|------|-------|-------|------|-------|------|-------|------|------|-------|------|------|------|-------|----|----|----|
| 2980 | 117.3 | 30545 | 6867 | 15273 | 3433 | 30545 | 6867 | 20.3 | 13.62 | 14.3 | 9.61 | 16.7 | 11.22 | 20 | 20 | 10 |
|------|-------|-------|------|-------|------|-------|------|------|-------|------|------|------|-------|----|----|----|

General belt tolerance is +0/-0.4% at 23°C/73°F and 50% RH. For exact belt width contact Customer Service. Non standard belt width on request.

The belt width in PA6 is 0.8 % wider than the belt width in the table

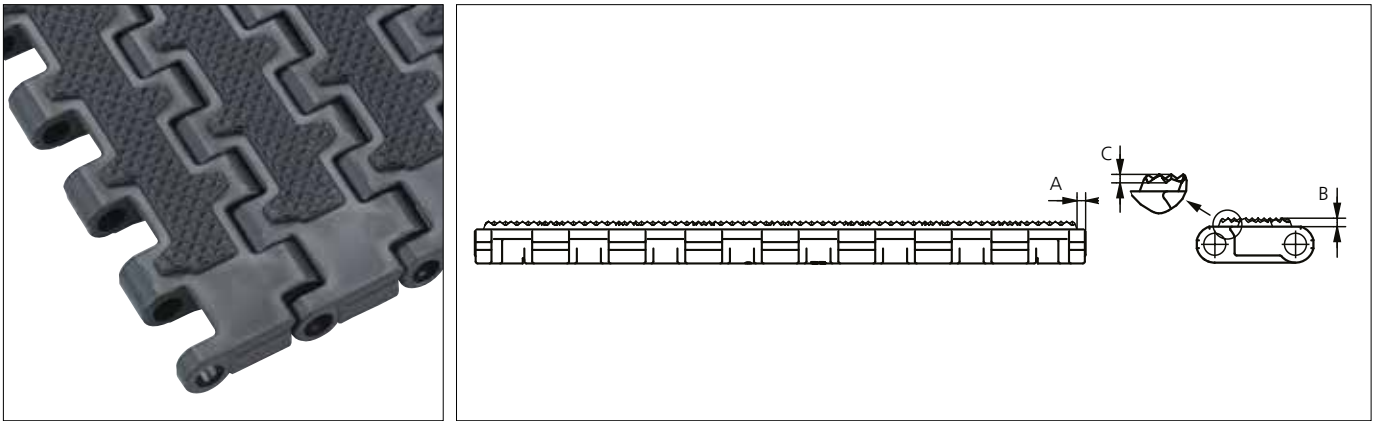
\*Max. Load per Drive Sprocket. Belt material: POM-LF 1250 N (281 lbf), PP 700 N (157 lbf), PA6 1250 N (281 lbf)

\*\*Max. Spacing between wear strips, Carry: 152.0 mm (6.00 in); Return: 304.0 mm (12.00 in)

= Single Link

Accessories

Rubber Top

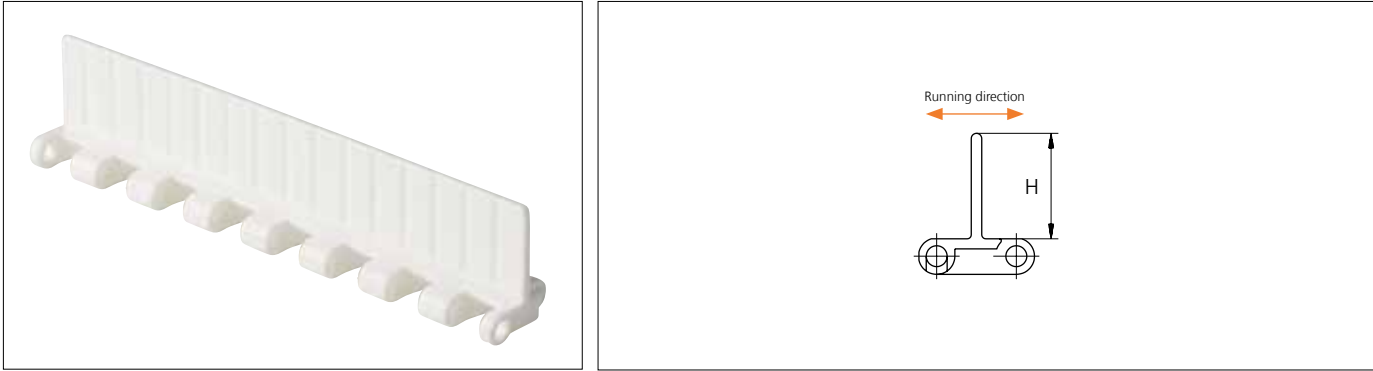


| Type                 | Belt<br>Material & color | Rubber<br>Material & color | A   |      | B   |      | C   |      | Link<br>size | Width |      |
|----------------------|--------------------------|----------------------------|-----|------|-----|------|-----|------|--------------|-------|------|
|                      |                          |                            | mm  | in   | mm  | in   | mm  | in   |              | mm    | in   |
| NON STANDARD<br>Flat | PP <b>K</b>              | 03 <b>K</b>                | 2.0 | 0.08 | 2.0 | 0.08 | -   | -    | K300         | 76.0  | 2.99 |
| STANDARD<br>Rough    |                          |                            |     |      |     |      | 1.0 | 0.04 | K450         | 114.0 | 4.49 |
|                      |                          |                            |     |      |     |      |     |      | K600         | 150.5 | 5.93 |

Indent 15.0 mm (0.59 in) is only available in size 228.6 mm (9.00 in) and wider.

Accessories

Flight

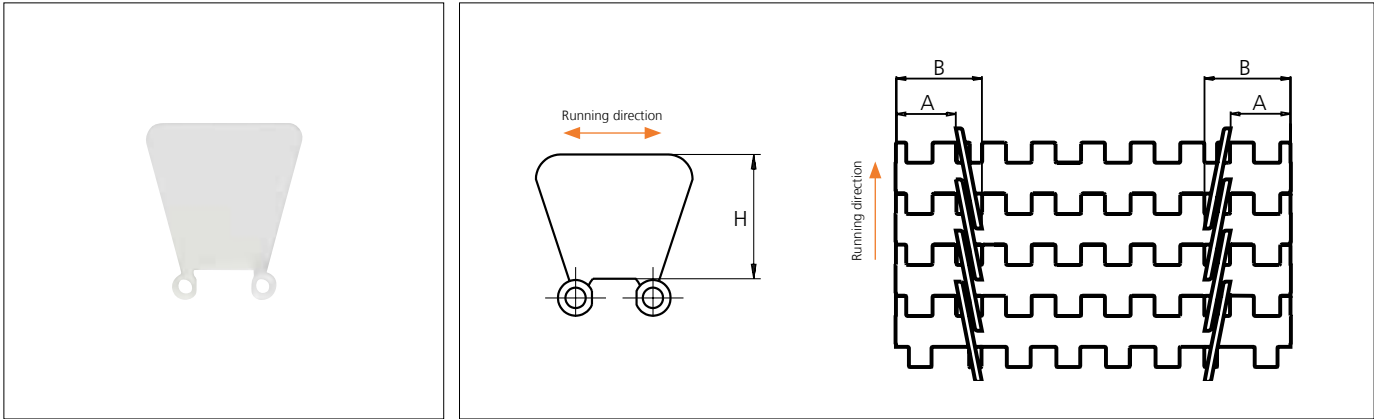


| Type                   | Flight<br>Material & color |                   | H    |      | Link size | Width |      | Indent |      |
|------------------------|----------------------------|-------------------|------|------|-----------|-------|------|--------|------|
|                        |                            |                   | mm   | in   |           | mm    | in   | mm     | in   |
| Non Stick              | PP-I                       | <b>W</b>          | 25.4 | 1.00 | K300      | 76.4  | 3.01 | 0.0    | 0.00 |
|                        | PP-I                       | <b>W</b> <b>G</b> |      |      | K600      | 152.8 | 6.02 | 0.0    | 0.00 |
|                        | PA6                        | <b>K</b>          |      |      |           |       |      |        |      |
| Non Stick              | PP-I                       | <b>W</b> <b>G</b> | 25.4 | 1.00 | K600      | 152.8 | 6.02 | 15.0   | 0.59 |
|                        | PA6                        | <b>K</b>          |      |      |           |       |      |        |      |
| Non Stick/Support Ribs | PP-I                       | <b>W</b>          | 25.4 | 1.00 | K600      | 152.8 | 6.02 | 0.0    | 0.00 |
| Non Stick/Support Ribs | PP-I                       | <b>W</b> <b>G</b> | 50.8 | 2.00 | K600      | 152.8 | 6.02 | 0.0    | 0.00 |
|                        | PA6                        | <b>K</b>          |      |      |           |       |      |        |      |
| Non Stick/Support Ribs | PP-I                       | <b>G</b>          | 50.8 | 2.00 | K600      | 152.8 | 6.02 | 15.0   | 0.59 |
|                        | PA6                        | <b>K</b>          |      |      |           |       |      |        |      |
| Non Stick/Support Ribs | PP-I                       | <b>W</b> <b>G</b> | 76.2 | 3.00 | K600      | 152.8 | 6.02 | 0.0    | 0.00 |
| Non Stick/Support Ribs | PP-I                       | <b>W</b> <b>G</b> | 76.2 | 3.00 | K600      | 152.8 | 6.02 | 15.0   | 0.59 |
|                        | PA6                        | <b>K</b>          |      |      |           |       |      |        |      |

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

Accessories

Side Guard

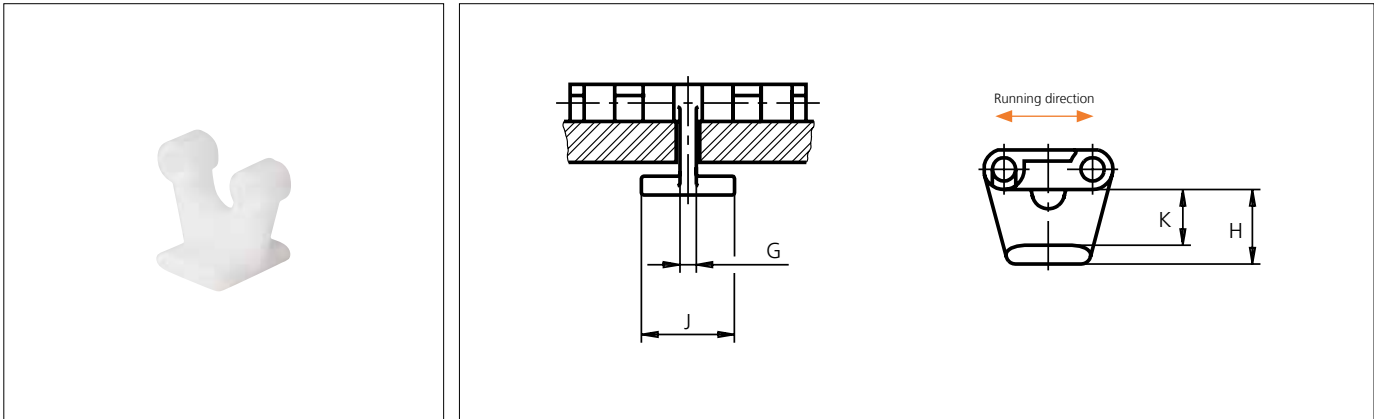


| Type   | Side Guard<br>Material & color     | H    |      | A    |      | B    |      |
|--------|------------------------------------|------|------|------|------|------|------|
|        |                                    | mm   | in   | mm   | in   | mm   | in   |
| Closed | PP-I <span>W</span> <span>G</span> | 31.4 | 1.24 | 15.0 | 0.59 | 25.0 | 0.98 |

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

Accessories

Tab



| Type                | Tab<br>Material & color | G   |      | J    |      | K    |      | H    |      |
|---------------------|-------------------------|-----|------|------|------|------|------|------|------|
|                     |                         | mm  | in   | mm   | in   | mm   | in   | mm   | in   |
| Bottom<br>Hold Down | POM-D <span>N</span>    | 3.5 | 0.14 | 20.0 | 0.79 | 11.7 | 0.46 | 15.9 | 0.63 |

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

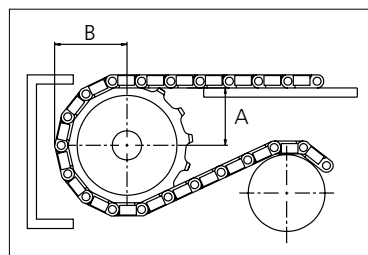
## Sprocket

| No of teeth | Bore size  |    |      |      |      |      |      |      |      |       | Overall diameter |       | Pitch-diameter |      | Hub-diameter |      | A-dimen-<br>sion |      | B-dimen-<br>sion |   | Single row/Two way | PA6 LG |
|-------------|------------|----|------|------|------|------|------|------|------|-------|------------------|-------|----------------|------|--------------|------|------------------|------|------------------|---|--------------------|--------|
|             | Pilot bore | in | 0.75 | 0.78 | 0.98 | 1.00 | 1.18 | 1.25 | 1.50 | 1.57  |                  |       |                |      |              |      |                  |      |                  |   |                    |        |
|             |            | mm | 19.1 | 20.0 | 25.0 | 25.4 | 30.0 | 31.8 | 38.1 | 40.0  | mm               | in    | mm             | in   | mm           | in   | mm               | in   | Molded           |   |                    |        |
| Z07         | ✔          |    | ●    | ●    |      |      |      |      |      | 42.6  | 1.68             | 43.9  | 1.73           | 30.0 | 1.18         | 15.4 | 0.61             | 26.3 | 1.04             | ✔ | ✔                  |        |
| Z10         | ✔          |    |      |      |      | ●    | ●    |      |      | 61.7  | 2.43             | 61.6  | 2.43           | 45.0 | 1.77         | 25.0 | 0.98             | 35.2 | 1.39             | ✔ | ✔                  |        |
| Z17         | ✔          |    |      |      | ●    | ●    | ●    | ●    | ■    | 105.0 | 4.13             | 103.7 | 4.08           | 65.0 | 2.56         | 46.6 | 1.83             | 56.2 | 2.21             | ✔ | ✔                  |        |
| Z24         | ✔          |    |      |      |      | ●    | ●    | ●    | ■    | 147.2 | 5.80             | 146.0 | 5.75           | 70.0 | 2.76         | 68.0 | 2.68             | 77.3 | 3.04             | ✔ | ✔                  |        |
| Z25         | ✔          |    |      |      |      |      | ●    | ●    | ■    | 153.3 | 6.04             | 152.0 | 5.98           | 70.0 | 2.76         | 71.0 | 2.80             | 80.3 | 3.16             | ✔ | ✔                  |        |

### ■ Molded sprocket



### ● Molded sprocket



Other sprocket sizes are available upon request.  
 Two-part sprocket are available upon request.  
 Round bores are always delivered with keyway.  
 Other bore sizes are available upon request.  
 uni Retainer Rings: See uni Retainer Ring data sheet.  
 Width of tooth = 4.8 mm (0.19 in)  
 Width of sprocket = 25.0 mm (0.98 in)

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

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

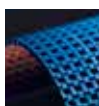
Non standard material  
 and color: See uni Material  
 and Color Overview.



Synthetic Belts



Endless Woven Belts



Modular Belts



Engineered Belts



Homogeneous Belts



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 Hjulmagervej 21  
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