# LIGHT DRIPLINE

P1™ light dripline is the novelty for irrigation in greenhouses and open field for vegetables and flowers.
P1™ light dripline is the new generation dripline to satisfy drip irrigation requirements thanks to:

- High performances of emission uniformity also in irrigation cycles with fertilizers;
- Possibility to reach considerable branch lengths;
- Technical characteristics reliable in the long run, in various applications and environment conditions;
- Easy to install without checking the emission point position on the ground;
- Low investments to be paid off in one season only.

**Born from the integrated-extruded tecnology P1™- light dripline shows advanced technical characteristics:**

- The flat dripper 2 mm thick only, welded on the inside wall of the pipe grants minimum pressure losses;
- Dripper's filter, with eight pass holes, avoids clogging possibilities;
- The turbulent flow labyrinth, with characteristics for a higher emission uniformity, excludes sedimentation possibilities even at low working pressures;
- The pipe available in four diameters 16, 22, 25 and 29 mm, with wall thickness of 5, 6, 7, 8, 10, 12, 15, 18,and 24 mil, offers high resistance to thermal stresses, UV rays and mechanical stresses.

## Dripper characteristics

| Nominal flow rate | Recommended filtration | Colour | Pressure (bar)/flow rate (lph) relation | | | | | |
|---|---|---|---|---|---|---|---|---|
| lph at 1,0 bar | | | 0,5 | 0,7 | 1,0 | 1,2 | 1,5 | 2,0 |
| 0,80 | 155 mesh | | 0,56 | 0,66 | 0,79 | 0,87 | 0,97 | 1,12 |
| 1,10 | 155 mesh | | 0,80 | 0,92 | 1,11 | 1,22 | 1,40 | 1,60 |
| 1,50 | 155 mesh | | 1,00 | 1,25 | 1,50 | 1,65 | 1,90 | 2,20 |
| 2,10 | 120 mesh | | 1,50 | 1,77 | 2,09 | 2,32 | 2,59 | 3,00 |
| 2,80 | 120 mesh | | 1,99 | 2,32 | 2,76 | 3,01 | 3,35 | 3,88 |
| 3,80 | 120 mesh | | 2,73 | 3,20 | 3,81 | 4,15 | 4,60 | 5,30 |

## PE pipe characteristics

| Nominal Ø | | Inside Ø | Outside Ø | Thickness | | Max. operating pressure | |
|---|---|---|---|---|---|---|---|
| mm | inch | mm | mm | mil | mm | bar | psi |
| 16 | 5/8 | 16,1 | 16,35 | 5 | 0,125 | 0,60 | 8,70 |
| | | | 16,40 | 6 | 0,15 | 0,70 | 10,10 |
| | | | 16,45 | 7 | 0,18 | 0,80 | 11,60 |
| | | | 16,50 | 8 | 0,20 | 0,90 | 13,00 |
| | | | 16,60 | 10 | 0,25 | 1,10 | 16,00 |
| | | | 16,70 | 12 | 0,30 | 1,30 | 18,90 |
| | | | 16,90 | 15 | 0,40 | 1,60 | 23,20 |
| | | | 17,00 | 18 | 0,45 | 1,80 | 26,10 |
| | | | 17,30 | 24 | 0,60 | 2,00 | 29,00 |
| 22 | 7/8 | 22,3 | 22,65 | 7 | 0,177 | 0,60 | 8,70 |
| | | | 22,70 | 8 | 0,20 | 0,70 | 10,10 |
| | | | 22,80 | 10 | 0,25 | 0,90 | 13,00 |
| | | | 22,90 | 12 | 0,30 | 1,00 | 14,50 |
| | | | 23,10 | 15 | 0,40 | 1,20 | 17,40 |
| | | | 23,20 | 18 | 0,45 | 1,30 | 18,80 |
| | | | 23,50 | 24 | 0,60 | 1,70 | 24,60 |
| 25 | 1 | 25,1 | 25,60 | 10 | 0,25 | 0,80 | 11,60 |
| | | | 25,70 | 12 | 0,30 | 0,90 | 13,00 |
| | | | 25,90 | 15 | 0,38 | 1,10 | 16,00 |
| 29 | 1 1/8 | 28,6 | 29,10 | 10 | 0,25 | 0,70 | 10,10 |
| | | | 29,20 | 12 | 0,30 | 0,80 | 11,60 |

*E.U. = emission uniformity %*
*S = slope*
** suggested in meters with 90% and 85% emission uniformity level with 0% slope and 1 bar pressure*

Product certified according to ISO 9261

## Maximum lengths*

| Model | lph flow rate | E.U.% | Spacing (cm) | | | |
|---|---|---|---|---|---|---|
| | | | 15 | 20 | 30 | 40 |
| 16 | 0,8 | 90 | 144 | 172 | 223 | 268 |
| | | 85 | 178 | 214 | 276 | 332 |
| | 1,1 | 90 | 119 | 143 | 185 | 222 |
| | | 85 | 147 | 176 | 228 | 274 |
| | 1,5 | 90 | 99 | 115 | 148 | 178 |
| | | 85 | 122 | 142 | 184 | 221 |
| | 2,1 | 90 | 78 | 93 | 121 | 145 |
| | | 85 | 96 | 116 | 150 | 180 |
| | 2,8 | 90 | 66 | 79 | 102 | 122 |
| | | 85 | 81 | 97 | 126 | 151 |
| | 3,8 | 90 | 55 | 65 | 85 | 102 |
| | | 85 | 67 | 81 | 104 | 125 |
| 22 | 0,8 | 90 | 252 | 302 | 391 | 470 |
| | | 85 | 312 | 375 | 485 | 582 |
| | 1,1 | 90 | 208 | 250 | 324 | 389 |
| | | 85 | 258 | 309 | 401 | 481 |
| | 1,5 | 90 | 172 | 201 | 260 | 312 |
| | | 85 | 213 | 249 | 322 | 387 |
| | 2,1 | 90 | 136 | 164 | 212 | 255 |
| | | 85 | 168 | 203 | 263 | 316 |
| | 2,8 | 90 | 114 | 137 | 177 | 213 |
| | | 85 | 141 | 169 | 219 | 264 |
| | 3,8 | 90 | 95 | 115 | 148 | 178 |
| | | 85 | 117 | 142 | 183 | 220 |
| 25 | 0,8 | 90 | 311 | 373 | 483 | 580 |
| | | 85 | 385 | 462 | 599 | 719 |
| | 1,1 | 90 | 257 | 313 | 406 | 487 |
| | | 85 | 318 | 387 | 501 | 602 |
| | 1,5 | 90 | 214 | 248 | 321 | 386 |
| | | 85 | 265 | 308 | 398 | 478 |
| | 2,1 | 90 | 171 | 201 | 261 | 313 |
| | | 85 | 211 | 249 | 323 | 388 |
| | 2,8 | 90 | 142 | 170 | 221 | 265 |
| | | 85 | 176 | 211 | 273 | 328 |
| | 3,8 | 90 | 118 | 142 | 184 | 220 |
| | | 85 | 146 | 175 | 227 | 272 |
| 29 | 0,8 | 90 | 387 | 465 | 601 | 722 |
| | | 85 | 479 | 576 | 746 | 895 |
| | 1,1 | 90 | 320 | 385 | 499 | 599 |
| | | 85 | 396 | 482 | 624 | 749 |
| | 1,5 | 90 | 266 | 309 | 400 | 480 |
| | | 85 | 329 | 383 | 496 | 596 |
| | 2,1 | 90 | 212 | 251 | 325 | 390 |
| | | 85 | 263 | 311 | 402 | 483 |
| | 2,8 | 90 | 177 | 212 | 275 | 330 |
| | | 85 | 219 | 263 | 340 | 409 |
| | 3,8 | 90 | 147 | 177 | 228 | 275 |
| | | 85 | 182 | 218 | 282 | 339 |