

## Polipropilen Polypropylene



G. VAN DER LEE



### Teknik Özellikler Technical Specification

- Özgül Ağırlık: 0,91  
- Specific Gravity: 0,91
- Erime Noktası: 160 °C  
- Melting Point: 160 °C
- Kopma Anındaki Uzama: 30%  
- Elongation at Break: 30%
- Renk: Somon ve Turuncu  
- Clour: Salmon and Orange

### Konstrüksiyon Construction

- 3-,8- ve 12- kollu  
- 3-,8- ve 12- strand plaited

| Çap<br>Diameter<br>mm | Çevre<br>Circumference<br>inch | Ağırlık<br>Weight<br>kg / 100 m | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |        |
|-----------------------|--------------------------------|---------------------------------|---|--------|
|                       |                                |                                 | Ton   | kN     |
| 8                     | 1                              | 3,0                             | 1,0   | 9,4    |
| 10                    | 1 1/4                          | 4,5                             | 1,4   | 14,0   |
| 12                    | 1 1/2                          | 6,5                             | 2,0   | 19,9   |
| 14                    | 1 3/4                          | 9,0                             | 2,8   | 27,4   |
| 16                    | 2                              | 11,5                            | 3,5   | 34,3   |
| 18                    | 2 1/4                          | 14,8                            | 4,5   | 43,6   |
| 20                    | 2 1/2                          | 18,0                            | 5,4   | 52,6   |
| 22                    | 2 3/4                          | 22,0                            | 6,5   | 63,7   |
| 24                    | 3                              | 26,0                            | 7,6   | 74,5   |
| 26                    | 3 1/4                          | 31,0                            | 8,9   | 86,8   |
| 28                    | 3 1/2                          | 35,5                            | 10,1  | 99,0   |
| 30                    | 3 3/4                          | 41,0                            | 11,5  | 112,7  |
| 32                    | 4                              | 46,0                            | 12,8  | 125,5  |
| 36                    | 4 1/2                          | 58,5                            | 16,1  | 157,8  |
| 40                    | 5                              | 72,0                            | 19,4  | 190,2  |
| 44                    | 5 1/2                          | 88,0                            | 23,4  | 229,4  |
| 48                    | 6                              | 104,0                           | 27,2  | 266,7  |
| 52                    | 6 1/2                          | 122,0                           | 31,5  | 308,8  |
| 56                    | 7                              | 142,0                           | 36,0  | 352,9  |
| 60                    | 7 1/2                          | 163,0                           | 41,2  | 403,9  |
| 64                    | 8                              | 185,0                           | 46,6  | 456,9  |
| 68                    | 8 1/2                          | 210,0                           | 52,6  | 515,7  |
| 72                    | 9                              | 234,0                           | 58,5  | 573,5  |
| 80                    | 10                             | 290,0                           | 72,0  | 705,9  |
| 88                    | 11                             | 351,0                           | 86,4  | 847,1  |
| 96                    | 12                             | 417,0                           | 102,0   | 1000,0 |
| 104                   | 13                             | 482,0                           | 118,0   | 1156,9 |
| 112                   | 14                             | 568,0                           | 138,0   | 1352,9 |
| 120                   | 15                             | 648,0                           | 156,0   | 1529,4 |
| 128                   | 16                             | 740,0                           | 176,0   | 1725,5 |
| 136                   | 17                             | 838,0                           | 197,6   | 1937,3 |
| 144                   | 18                             | 940,0                           | 219,6   | 2152,9 |
| 152                   | 19                             | 1047,0                          | 242,0   | 2372,5 |
| 160                   | 20                             | 1160,0                          | 266,2   | 2609,8 |



**Teknik Özellikler**  
**Technical Specification**

- Özgül Ağırlık: 1,38  
- Specific Gravity: 1,38
- Erime Noktası: 260 °C  
- Melting Point: 260 °C
- Kopma Anındaki Uzama: 30-35%  
- Elongation at Break: 30-35%
- Renk: Beyaz  
- Clour: White

**Konstrüksiyon**  
**Construction**

- 3-,8- ve 12- kollu  
- 3-,8- ve 12- strand plaited

| Çap<br>Diameter<br>mm | Çevre<br>Circumference<br>inch | Ağırlık<br>Weight<br>kg / 100 m | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |        |
|-----------------------|--------------------------------|---------------------------------|---|--------|
|                       |                                |                                 | Ton   | kN     |
| 8                     | 1                              | 5,1                             | 1,3   | 12,5   |
| 10                    | 1 1/4                          | 8,1                             | 2,0   | 19,5   |
| 12                    | 1 1/2                          | 11,6                            | 2,8   | 27,8   |
| 14                    | 1 3/4                          | 15,7                            | 4,0   | 39,0   |
| 16                    | 2                              | 20,5                            | 5,1   | 49,7   |
| 18                    | 2 1/4                          | 26,0                            | 6,4   | 62,2   |
| 20                    | 2 1/2                          | 32,0                            | 7,9   | 77,8   |
| 22                    | 2 3/4                          | 38,4                            | 9,5   | 93,3   |
| 24                    | 3                              | 46,0                            | 11,4  | 112,0  |
| 26                    | 3 1/4                          | 53,7                            | 13,3  | 130,7  |
| 28                    | 3 1/2                          | 63,0                            | 15,3  | 141,5  |
| 30                    | 3 3/4                          | 72,0                            | 17,1  | 168,0  |
| 32                    | 4                              | 82,0                            | 19,6  | 192,4  |
| 34                    | 4 1/4                          | 93,0                            | 21,9  | 214,4  |
| 36                    | 4 1/2                          | 104,0                           | 24,1  | 236,5  |
| 38                    | 4 3/4                          | 116,0                           | 27,0  | 264,7  |
| 40                    | 5                              | 128,0                           | 29,9  | 292,8  |
| 44                    | 5 1/2                          | 155,0                           | 35,5  | 348,0  |
| 48                    | 6                              | 185,0                           | 48,6  | 476,4  |
| 52                    | 6 1/2                          | 215,0                           | 56,7  | 555,8  |
| 56                    | 7                              | 251,0                           | 65,7  | 644,1  |
| 60                    | 7 1/2                          | 288,0                           | 72,3  | 708,8  |
| 64                    | 8                              | 328,0                           | 80,7  | 791,1  |
| 68                    | 8 1/2                          | 372,0                           | 91,0  | 892,1  |
| 72                    | 9                              | 415,0                           | 99,5  | 975,4  |
| 80                    | 10                             | 512,0                           | 121,9   | 1195,1 |
| 88                    | 11                             | 619,0                           | 146,3   | 1434,3 |
| 96                    | 12                             | 735,0                           | 173,4   | 1700,0 |
| 112                   | 14                             | 1000,0                          | 234,4   | 2298,0 |
| 120                   | 15                             | 1150,0                          | 268,0   | 2627,4 |
| 128                   | 16                             | 1310,0                          | 303,2   | 2972,5 |
| 144                   | 18                             | 1660,0                          | 383,2   | 3756,8 |
| 160                   | 20                             | 2050,0                          | 474,1   | 4648,0 |
| 176                   | 22                             | 2350,0                          | 543,5   | 5328,4 |

## Naylon Nylon



### Teknik Özellikler Technical Specification

- Özgül Ağırlık: 1,14
- Specific Gravity: 1,14
- Erime Noktası: 210 °C
- Melting Point: 210 °C
- Kopma Anındaki Uzama: 50%
- Elongation at Break: 50%
- Renk: Beyaz
- Clour: White

### Konstrüksiyon Construction

- 3-,8- ve 12- kollu
- 3-,8- ve 12- strand plaited

| Çap<br>Diameter<br>mm | Çevre<br>Circumference<br>inch | Ağırlık<br>Weight<br>kg / 100 m | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |        |
|-----------------------|--------------------------------|---------------------------------|---|--------|
|                       |                                |                                 | Ton   | kN     |
| 8                     | 1                              | 4,0                             | 1,4   | 13,2   |
| 10                    | 1 1/4                          | 6,3                             | 2,1   | 20,3   |
| 12                    | 1 1/2                          | 9,0                             | 3,0   | 29,4   |
| 14                    | 1 3/4                          | 12,3                            | 4,1   | 40,2   |
| 16                    | 2                              | 16,0                            | 5,3   | 51,9   |
| 18                    | 2 1/4                          | 20,3                            | 6,7   | 65,6   |
| 20                    | 2 1/2                          | 25,0                            | 8,3   | 81,3   |
| 22                    | 2 3/4                          | 30,3                            | 10,0  | 98,0   |
| 24                    | 3                              | 36,0                            | 12,0  | 117,6  |
| 26                    | 3 1/4                          | 42,3                            | 13,8  | 135,2  |
| 28                    | 3 1/2                          | 49,0                            | 15,8  | 154,9  |
| 30                    | 3 3/4                          | 56,3                            | 17,8  | 174,5  |
| 32                    | 4                              | 64,0                            | 20,0  | 196,0  |
| 34                    | 4 1/4                          | 72,3                            | 22,3  | 218,6  |
| 36                    | 4 1/2                          | 81,0                            | 24,8  | 243,1  |
| 38                    | 4 3/4                          | 90,3                            | 27,3  | 267,6  |
| 40                    | 5                              | 100,0                           | 30,0  | 294,1  |
| 44                    | 5 1/2                          | 121,0                           | 35,8  | 350,9  |
| 48                    | 6                              | 144,0                           | 42,0  | 411,7  |
| 52                    | 6 1/2                          | 169,0                           | 48,8  | 478,4  |
| 56                    | 7                              | 196,0                           | 56,0  | 549,0  |
| 60                    | 7 1/2                          | 225,0                           | 63,8  | 625,4  |
| 64                    | 8                              | 256,0                           | 72,0  | 705,8  |
| 68                    | 8 1/2                          | 289,0                           | 80,8  | 791,6  |
| 72                    | 9                              | 324,0                           | 90,0  | 882,3  |
| 80                    | 10                             | 400,0                           | 110,0   | 1072,4 |
| 88                    | 11                             | 484,0                           | 131,0   | 1284,3 |
| 96                    | 12                             | 576,0                           | 156,0   | 1509,8 |
| 104                   | 13                             | 676,0                           | 182,0   | 1784,3 |
| 112                   | 14                             | 784,0                           | 210,0   | 2058,8 |
| 120                   | 15                             | 900,0                           | 240,0   | 2352,9 |
| 128                   | 16                             | 1024,0                          | 272,0   | 2666,6 |
| 136                   | 17                             | 1156,0                          | 306,0   | 3000,0 |
| 144                   | 18                             | 1296,0                          | 342,0   | 3352,9 |
| 152                   | 19                             | 1440,0                          | 380,0   | 3725,4 |
| 160                   | 20                             | 1600,0                          | 420,0   | 4117,6 |

## 'LeoTec' Yüksek Mukavemetli Polipropilen

'LeoTec' High Strength Polypropylene



G. VAN DER LEE



### Teknik Özellikler Technical Specification

- Özgül Ağırlık: 0,91  
- Specific Gravity: 0,91
- Erime Noktası: 160 °C  
- Melting Point: 160 °C
- Kopma Anındaki Uzama: 25-30%  
- Elongation at Break: 25-30%
- Renk: Sarı  
- Clour: Yellow

### Konstrüksiyon Construction

- 3-,4-,8-,12- ve 24- kollu  
- 3-,4-,8-,12- ve 24- strand

| Çap<br>Diameter<br>mm | Çevre<br>Circumference<br>inch | Ağırlık<br>Weight<br>kg / 100 m | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |        |
|-----------------------|--------------------------------|---------------------------------|---|--------|
|                       |                                |                                 | Ton   | kN     |
| 8                     | 1                              | 3,0                             | 1,3   | 12,6   |
| 10                    | 1 1/4                          | 4,5                             | 1,9   | 18,8   |
| 12                    | 1 1/2                          | 6,5                             | 2,9   | 28,3   |
| 14                    | 1 3/4                          | 9,0                             | 3,8   | 37,7   |
| 16                    | 2                              | 11,5                            | 4,8   | 47,2   |
| 18                    | 2 1/4                          | 14,8                            | 6,2   | 60,7   |
| 20                    | 2 1/2                          | 18,0                            | 7,4   | 72,3   |
| 22                    | 2 3/4                          | 22,0                            | 9,0   | 88,0   |
| 24                    | 3                              | 25,9                            | 10,6  | 104,0  |
| 26                    | 3 1/4                          | 30,4                            | 12,4  | 121,6  |
| 28                    | 3 1/2                          | 35,4                            | 14,1  | 138,3  |
| 30                    | 3 3/4                          | 40,4                            | 16,0  | 157,0  |
| 32                    | 4                              | 45,9                            | 17,9  | 175,6  |
| 34                    | 4 1/4                          | 58,6                            | 22,0  | 215,8  |
| 36                    | 4 1/2                          | 71,8                            | 27,4  | 268,8  |
| 38                    | 4 3/4                          | 88,1                            | 34,0  | 333,5  |
| 40                    | 5                              | 104,0                           | 39,6  | 388,5  |
| 44                    | 5 1/2                          | 121,8                           | 45,8  | 449,3  |
| 48                    | 6                              | 141,8                           | 52,4  | 514,0  |
| 52                    | 6 1/2                          | 163,1                           | 60,0  | 588,6  |
| 56                    | 7                              | 185,0                           | 67,9  | 666,1  |
| 60                    | 7 1/2                          | 209,5                           | 76,7  | 752,4  |
| 64                    | 8                              | 234,1                           | 85,2  | 835,8  |
| 68                    | 8 1/2                          | 290,0                           | 105,0   | 1030,1 |
| 72                    | 9                              | 350,1                           | 126,0   | 1236,1 |
| 80                    | 10                             | 416,8                           | 149,0   | 1461,7 |
| 88                    | 11                             | 498,0                           | 171,6   | 1683,3 |
| 96                    | 12                             | 576,0                           | 200,2   | 1964,0 |
| 112                   | 14                             | 659,0                           | 221,1   | 2169,0 |
| 120                   | 15                             | 750,0                           | 244,5   | 2398,5 |
| 128                   | 16                             | 858,0                           | 277,2   | 2719,3 |
| 144                   | 18                             | 959,0                           | 305,8   | 2999,9 |

### AVANTAJLAR ADVANTAGES

- Suda yüzen halat  
- Float in the water
- Islakken de ve kuruyken de aynı mukavemet  
- Wet strenght equal to dry strenght
- Suyu emmeyen halat  
- Do not absorb water
- Yüksek mukavemet ve aşınma direnci  
- Excellent strenght and abrasion resistance
- OCIMF (MEG3) uyumlu  
- OCIMF (MEG3) compliant

### 12 ve 24 kollu tipler için ek olarak; Additional for 12- and 24- strand;

- Vinçlerde ve tamburlarda kullanmaya uygundur.  
- Ideal for auto winches and drums.
- Dönmez tipteki konstrüksiyon  
- Non-rotating, torque-free round construction

## 'LeoMix' Yüksek Mukavemetli Polipropilen/Polyester (85:15)

'LeoMix' High Strength Polypropylene/Polyester (85:15)



G. VAN DER LEE



### Teknik Özellikler

#### Technical Specification

- Özgül Ağırlık: 0,99  
- Specific Gravity: 0,99
- Erime Noktası: 165-260 °C  
- Melting Point: 165-260 °C
- Kopma Anındaki Uzama: 25%  
- Elongation at Break: 25%
- Renk: Açık Mavi  
- Clour: Light Blue

### Konstrüksiyon

- 8- ve 12- kollu  
- 8- ve 12- strand plaited

| Çap<br>Diameter<br>mm | Çevre<br>Circumference<br>inch | Ağırlık<br>Weight<br>kg / 100 m | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |        |
|-----------------------|--------------------------------|---------------------------------|---|--------|
|                       |                                |                                 | Ton   | kN     |
| 36                    | 4 1/2                          | 52,9                            | 24,9  | 244,2  |
| 40                    | 5                              | 79,0                            | 30,2  | 296,0  |
| 44                    | 5 1/2                          | 96,3                            | 36,5  | 357,8  |
| 48                    | 6                              | 114,5                           | 43,0  | 421,6  |
| 52                    | 6 1/2                          | 134,0                           | 50,5  | 495,0  |
| 56                    | 7                              | 156,0                           | 58,0  | 568,6  |
| 60                    | 7 1/2                          | 179,5                           | 66,0  | 647,0  |
| 64                    | 8                              | 203,6                           | 75,0  | 735,3  |
| 68                    | 8 1/2                          | 229,5                           | 84,5  | 828,4  |
| 72                    | 9                              | 257,0                           | 94,5  | 926,5  |
| 76                    | 9 1/2                          | 287,0                           | 103,0   | 1009,8 |
| 80                    | 10                             | 319,0                           | 116,0   | 1137,3 |
| 88                    | 11                             | 386,0                           | 139,0   | 1362,7 |
| 96                    | 12                             | 457,0                           | 165,0   | 1617,6 |
| 104                   | 13                             | 540,0                           | 193,0   | 1892,1 |

### AVANTAJLAR ADVANTAGES

- Suda yüzen halat  
- Float in the water
- Islakken de ve kuruyken de aynı mukavemet  
- Wet strenght equal to dry strenght
- Suyu emmeyen halat  
- Do not absorb water
- Yüksek mukavemet  
- Excellent strenght
- Kimyasallara karşı yüksek direnç (Alkali kimyasal hariç)  
- Excellent chemical resistance, except in the presence of alkalis
- OCIMF (MEG3) uyumlu  
- OCIMF (MEG3) compliant
- Yüksek sürtünme dayanım  
- Excellent resistance to frictional heat damage

## 'SuperLeoMix' Yüksek Mukavemetli Polipropilen/Polyester (60:40)

'SuperLeoMix' High Strength Polypropylene/Polyester (60:40)



G. VAN DER LEE



### Teknik Özellikler

#### Technical Specification

- Özgül Ağırlık: 1,05  
- Specific Gravity: 1,05
- Erime Noktası: 165-250 °C  
- Melting Point: 165-250 °C
- Kopma Anındaki Uzama: 30-35%  
- Elongation at Break: 30-35%
- Renk: Beyaz  
- Clour: White

### Konstrüksiyon

#### Construction

- 8- kollu  
- 8- strand

| Çap<br>Diameter<br>mm | Çevre<br>Circumference<br>inch | Ağırlık<br>Weight<br>kg / 100 m | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |        |
|-----------------------|--------------------------------|---------------------------------|---|--------|
|                       |                                |                                 | Ton   | kN     |
| 32                    | 4                              | 77,8                            | 30,6  | 300,0  |
| 36                    | 4 1/2                          | 87,2                            | 35,2  | 345,1  |
| 40                    | 5                              | 99,3                            | 42,5  | 416,7  |
| 44                    | 5 1/2                          | 115,1                           | 49,1  | 481,4  |
| 48                    | 6                              | 129,7                           | 55,7  | 546,1  |
| 52                    | 6 1/2                          | 147,9                           | 64,2  | 629,4  |
| 56                    | 7                              | 166,6                           | 72,7  | 712,7  |
| 60                    | 7 1/2                          | 187,4                           | 81,1  | 795,1  |
| 64                    | 8                              | 212,2                           | 90,3  | 885,3  |
| 68                    | 8 1/2                          | 246,2                           | 104,0   | 1019,6 |
| 72                    | 9                              | 266,7                           | 113,0   | 1107,8 |
| 76                    | 9 1/2                          | 315,8                           | 134,0   | 1313,7 |
| 80                    | 10                             | 350,8                           | 148,0   | 1450,9 |
| 88                    | 11                             | 417,9                           | 175,0   | 1715,7 |
| 96                    | 12                             | 491,2                           | 205,0   | 2009,9 |
| 104                   | 13                             | 565,0                           | 235,0   | 2303,9 |

### AVANTAJLAR

#### ADVANTAGES

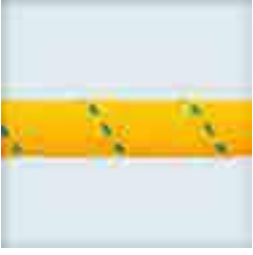
- Optimum mukavemet dengesi  
- Optimum strenght to weight ratio for ease of handling
- Islakken de ve kuruyken de aynı mukavemet  
- Wet strenght equal to dry strenght
- İç ve dış sürtünmelere karşı yüksek dayanım  
- Good abrasion resistance against internal and external friction
- Kimyasallara karşı yüksek direnç (Alkali kimyasal hariç)  
- Excellent chemical resistance, except in the presence of alkalis

## 'LeoTec' Winchline Halat

'LeoTec' Winchline



G. VAN DER LEE



| Çap<br>Diameter<br>mm | Çevre<br>Circumference<br>inch | Ağırlık<br>Weight<br>kg / 100 m | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |        |
|-----------------------|--------------------------------|---------------------------------|---|--------|
|                       |                                |                                 | Ton   | kN     |
| 40                    | 5                              | 73                              | 31,1  | 305,1  |
| 44                    | 5 1/2                          | 89                              | 38,6  | 378,7  |
| 48                    | 6                              | 106                             | 47,8  | 468,9  |
| 52                    | 6 1/2                          | 125                             | 56,4  | 553,3  |
| 56                    | 7                              | 144                             | 63,8  | 625,9  |
| 60                    | 7 1/2                          | 166                             | 74,0  | 725,9  |
| 64                    | 8                              | 188                             | 84,0  | 824,0  |
| 68                    | 8 1/2                          | 214                             | 95,0  | 932,0  |
| 72                    | 9                              | 238                             | 107,6   | 1055,6 |

### Teknik Özellikler

#### Technical Specification

- Özgöl Ağırlık: 0,91
- Specific Gravity: 0,91
- Erime Noktası: 185 °C
- Melting Point: 185 °C
- Kopma Anındaki Uzama: 15%
- Elongation at Break: 15%
- Renk: Açık Mavi Çizgili Sarı
- Clour: Yellow with Blue Marker

### Konstrüksiyon

#### Construction

- Örgülü 7- kollu
- Overbraided 7- strand core

## 'Dyneema SK75' Yüksek Modüllü Polietilen 'Dyneema SK75' High Modulus Polyethylene

**G. VAN DER LEE**



### Teknik Özellikler Technical Specification

- Özgül Ağırlık: 0,97  
- Specific Gravity: 0,97
- Erime Noktası: 150 °C  
- Melting Point: 150 °C
- Kopma Anındaki Uzama: 4-5%  
- Elongation at Break: 4-5%
- Su Emilimi: Yok  
- Water Absorption: None
- UV Direnç: İyi  
- UV Resistance: Good
- Renk: Turuncu/Kırmızı  
İsteğe göre farklı renkler  
- Clour: Orange/Red  
Other Colours on Request

### Konstrüksiyon Construction

- 8- ve 12- kollu  
- 8- and 12- strand

| Çap<br>Diameter<br>mm | Çevre<br>Circumference<br>inch | Ağırlık<br>Weight<br>kg / 100 m | Minimum Kopma Yüğü*<br>Minimum Breaking Load (MBL)* |        |
|-----------------------|--------------------------------|---------------------------------|---|--------|
|                       |                                |                                 | Ton   | kN     |
| 6                     | 3/4                            | 2,3                             | 4,2   | 41,2   |
| 8                     | 1                              | 3,9                             | 6,7   | 65,7   |
| 10                    | 1 1/8                          | 5,9                             | 10,8  | 105,9  |
| 12                    | 1 1/2                          | 9,5                             | 16,5  | 161,9  |
| 14                    | 1 3/4                          | 12,8                            | 22,0  | 215,8  |
| 16                    | 2                              | 16,0                            | 27,5  | 269,8  |
| 18                    | 2 1/4                          | 20,8                            | 35,0  | 343,3  |
| 20                    | 2 1/2                          | 25,5                            | 41,5  | 407,1  |
| 22                    | 2 3/4                          | 30,5                            | 50,0  | 490,5  |
| 24                    | 3                              | 35,8                            | 58,0  | 569,0  |
| 26                    | 3 1/4                          | 41,0                            | 66,0  | 647,4  |
| 28                    | 3 1/2                          | 46,5                            | 74,0  | 725,9  |
| 30                    | 3 3/4                          | 52,0                            | 81,5  | 799,5  |
| 32                    | 4                              | 57,0                            | 88,5  | 868,2  |
| 34                    | 4 1/4                          | 62,5                            | 96,0  | 941,7  |
| 36                    | 4 1/2                          | 68,0                            | 104,0   | 1020,2 |
| 38                    | 4 3/4                          | 74,0                            | 112,0   | 1098,7 |
| 40                    | 5                              | 84,0                            | 127,0   | 1245,8 |
| 42                    | 5 1/4                          | 93,0                            | 140,0   | 1373,4 |
| 44                    | 5 1/2                          | 102,0                           | 152,0   | 1491,1 |
| 46                    | 5 3/4                          | 111,0                           | 165,0   | 1618,6 |
| 48                    | 6                              | 121,0                           | 179,0   | 1755,9 |
| 50                    | 6 1/4                          | 131,0                           | 193,0   | 1893,3 |
| 52                    | 6 1/2                          | 141,0                           | 206,0   | 2020,8 |
| 56                    | 7                              | 163,0                           | 236,0   | 2351,1 |
| 60                    | 7 1/2                          | 175,0                           | 252,0   | 2472,0 |
| 64                    | 8                              | 200,0                           | 282,0   | 2766,3 |
| 68                    | 8 1/2                          | 226,0                           | 316,0   | 3099,9 |
| 72                    | 9                              | 254,0                           | 348,0   | 3413,8 |
| 80                    | 10                             | 313,0                           | 422,0   | 4139,7 |
| 88                    | 11                             | 379,0                           | 503,0   | 4934,3 |
| 96                    | 12                             | 451,0                           | 588,0   | 5768,1 |

\* Verilen minimum kopma yükleri örülmemiş halatlar için geçerlidir. Örülmüş halatlar için minimum kopma yükü ISO 10325'e göre %10 eksiği olarak kabul edilir.

\* Given MBLs are for new unspliced ropes. MBL in splice condition is minus 10% according to ISO 10325.

### AVANTAJLAR ADVANTAGES

- Maksimum mukavemet ve mukavemet ağırlık derecesi  
- Maximum strenght and maximum strenght to weight ratio
- Minimum uzama  
- Lowest elongation
- Özel iplikleri sayesinde sürtünmeye karşı yüksek dayanım  
- Super abrasion resistance due to special coated and twisted yarns
- ISO 10325 ve ISO 2307'ye göre imal edilir.  
- Produce according to ISO 10325 and ISO 2307



### 3 Toronlu / 3 Strand

| Çap<br>Diameter |         | Çevre<br>Circumference | Ağırlık<br>Weight |            | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |         |
|-----------------|---------|------------------------|-------------------|------------|---|---------|
| mm              | inch    | inch                   | kg / 220 m        | kg / 200 m | Ton   | kN      |
| 6               | 1/4     | 3/4                    | 3,67              | 3,34       | 0,770   | 7,55    |
| 8               | 5/16    | 1                      | 6,60              | 6,00       | 1,345   | 13,19   |
| 10              | 3/8     | 1 1/4                  | 10,00             | 9,09       | 2,000   | 19,61   |
| 12              | 1/2     | 1 1/2                  | 14,50             | 13,18      | 2,840   | 27,84   |
| 14              | 9/16    | 1 3/4                  | 20,00             | 18,18      | 3,905   | 38,28   |
| 16              | 5/8     | 2                      | 25,50             | 23,18      | 4,900   | 48,04   |
| 18              | 3/4     | 2 1/4                  | 32,50             | 29,55      | 5,500   | 53,92   |
| 20              | 13/16   | 2 1/2                  | 40,00             | 36,36      | 7,520   | 73,73   |
| 22              | 7/8     | 2 3/4                  | 48,50             | 44,09      | 8,450   | 82,84   |
| 24              | 1       | 3                      | 57,00             | 51,82      | 10,200  | 100,00  |
| 26              | 1 1/13  | 3 1/4                  | 67,60             | 61,45      | 11,870  | 116,37  |
| 28              | 1 1/8   | 3 1/2                  | 78,00             | 70,91      | 13,540  | 132,75  |
| 30              | 1 1/4   | 3 3/4                  | 90,00             | 81,82      | 15,482  | 151,78  |
| 32              | 1 5/16  | 4                      | 101,00            | 91,82      | 17,425  | 170,83  |
| 34              | 1 3/8   | 4 1/4                  | 115,60            | 105,09     | 19,262  | 188,84  |
| 36              | 1 7/16  | 4 1/2                  | 129,00            | 117,27     | 21,100  | 206,86  |
| 40              | 1 5/8   | 5                      | 158,00            | 143,64     | 24,980  | 244,90  |
| 44              | 1 3/4   | 5 1/2                  | 193,50            | 175,91     | 30,165  | 295,74  |
| 48              | 1 15/16 | 6                      | 229,00            | 208,18     | 35,350  | 346,57  |
| 52              | 2 1/16  | 6 1/2                  | 268,00            | 243,64     | 43,400  | 425,49  |
| 56              | 2 1/4   | 7                      | 312,00            | 283,64     | 49,400  | 484,31  |
| 60              | 2 3/8   | 7 1/2                  | 358,00            | 325,45     | 56,200  | 550,98  |
| 64              | 2 1/2   | 8                      | 407,00            | 370,00     | 64,100  | 628,43  |
| 68              | 2 15/16 | 8 1/2                  | 460,00            | 418,18     | 72,200  | 707,84  |
| 70              | 2 3/4   | 8 11/16                | 486,00            | 441,82     | 76,200  | 747,06  |
| 72              | 2 7/8   | 9                      | 514,00            | 467,27     | 80,200  | 786,27  |
| 76              | 3       | 9 1/2                  | 574,00            | 521,82     | 89,300  | 875,49  |
| 80              | 3 5/32  | 10                     | 638,00            | 580,00     | 98,400  | 964,71  |
| 84              | 3 1/2   | 10 1/2                 | 705,00            | 640,91     | 108,300   | 1061,76 |
| 88              | 3 15/16 | 11                     | 772,00            | 701,82     | 118,700   | 1163,73 |
| 96              | 3 3/4   | 12                     | 917,00            | 833,64     | 140,600   | 1378,43 |
| 100             | 4       | 12 1/2                 | 994,00            | 903,64     | 151,200   | 1482,35 |

#### Teknik Özellikler Technical Specification

- Özgöl Ağırlık: 0,91  
- Specific Gravity: 0,91
- Erime Noktası: 165 °C  
- Melting Point: 165 °C
- Kopma Anındaki Uzama: 18%  
- Elongation at Break: 18%
- Su Emilimi: Yok  
- Water Absorption: None
- UV Direnç: Stabilize  
- UV Resistance: Stabilised
- Renk: İstenilen Renkler  
- Colour: Any Colour

#### Konstrüksiyon Construction

- 3-,4-,8- ve 12- kolları  
- 3-,4-,8- and 12- strand

#### AVANTAJLAR ADVANTAGES

- Suda yüzen halat  
- Float in the water
- Islakken de ve kuruken de aynı mukavemet  
- Wet strenght equal to dry strenght
- Suyu emmeyen halat  
- Do not absorb water
- Yüksek mukavemet ve aşınma direnci  
- Excellent strenght and abrasion resistance
- Her roda Germanischer Lloyds test sertifikalıdır.  
- Each coil supplied with Germanischer Lloyds.



Verilen değerler ve karakteristikler 3-, 4-, 8- ve 12- kolları için geçerlidir.

Given values and properties are for all 3-, 8- and 12- strand rope.

**8 Toronlu / 8 Strand**

| Çap<br>Diameter |         | Çevre<br>Circumference | Ağırlık<br>Weight |            | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |         |
|-----------------|---------|------------------------|-------------------|------------|---|---------|
| mm              | inch    | inch                   | kg / 220 m        | kg / 200 m | Ton   | kN      |
| 40              | 1 5/8   | 1 5/8                  | 158,00            | 143,64     | 28,000  | 274,51  |
| 44              | 1 3/4   | 1 3/4                  | 193,60            | 176,00     | 33,750  | 330,88  |
| 48              | 1 15/16 | 1 15/16                | 229,00            | 208,18     | 39,500  | 387,25  |
| 52              | 2 1/16  | 2 1/16                 | 270,40            | 245,82     | 45,750  | 448,53  |
| 56              | 2 1/4   | 2 1/4                  | 312,20            | 283,64     | 52,000  | 509,80  |
| 60              | 2 3/8   | 2 3/8                  | 359,00            | 326,36     | 59,500  | 583,33  |
| 64              | 2 1/2   | 2 1/2                  | 407,00            | 370,00     | 67,550  | 662,25  |
| 68              | 2 15/16 | 2 15/16                | 460,00            | 418,18     | 76,000  | 745,10  |
| 72              | 2 7/8   | 2 7/8                  | 515,00            | 468,18     | 84,500  | 828,43  |
| 76              | 3       | 3                      | 574,00            | 521,82     | 94,000  | 921,57  |
| 80              | 3 1/4   | 3 1/4                  | 638,00            | 580,00     | 104,000   | 1019,61 |
| 84              | 3 1/2   | 3 1/2                  | 703,00            | 639,09     | 114,000   | 1117,65 |
| 88              | 3 15/16 | 3 15/16                | 772,00            | 701,82     | 125,000   | 1225,49 |
| 92              | 3 7/8   | 3 7/8                  | 846,00            | 769,09     | 136,000   | 1333,33 |
| 96              | 3 3/4   | 3 3/4                  | 916,00            | 832,73     | 148,000   | 1450,98 |
| 100             | 4       | 4                      | 1000,00           | 909,09     | 159,166   | 1560,45 |
| 104             | 4 1/2   | 4 1/2                  | 1078,00           | 980,00     | 169,500   | 1661,76 |
| 112             | 1 7/8   | 1 7/8                  | -                 | 1026,40    | 195,600   | 1917,65 |
| 116             | 4 3/4   | 4 3/4                  | -                 | 1008,60    | 207,030   | 2029,71 |
| 120             | 5       | 5                      | -                 | 1047,00    | 224,600   | 2201,96 |

**12 Toronlu / 12 Strand**

| Çap<br>Diameter |         | Çevre<br>Circumference | Ağırlık<br>Weight |            | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |         |
|-----------------|---------|------------------------|-------------------|------------|---|---------|
| mm              | inch    | inch                   | kg / 220 m        | kg / 200 m | kgf   | kN      |
| 52              | 2 1/16  | 6 1/2                  | 274,00            | 249,09     | 47400   | 464,71  |
| 56              | 2 1/4   | 7                      | 316,00            | 287,27     | 55100   | 540,20  |
| 60              | 2 3/8   | 7 1/2                  | 364,00            | 330,91     | 61700   | 604,90  |
| 64              | 2 1/2   | 8                      | 413,00            | 375,45     | 70500   | 691,18  |
| 68              | 2 15/16 | 8 1/2                  | 470,00            | 427,27     | 79800   | 782,35  |
| 72              | 2 7/8   | 9                      | 523,00            | 475,45     | 89200   | 874,51  |
| 76              | 3       | 9 1/2                  | 586,00            | 532,73     | 98500   | 965,69  |
| 80              | 3 5/32  | 10                     | 648,00            | 589,09     | 108400  | 1062,75 |
| 84              | 3 1/2   | 10 1/2                 | 716,00            | 650,91     | 117800  | 1154,90 |
| 88              | 3 7/16  | 11                     | 787,00            | 715,45     | 127700  | 1251,96 |
| 96              | 3 13/16 | 12                     | 934,00            | 849,09     | 150800  | 1478,43 |
| 104             | 4 1/2   | 13                     | 1095,00           | 995,45     | 171700  | 1683,33 |
| 108             | 4 15/16 | 13 1/2                 | 1166,00           | 1060,00    | 186000  | 1823,52 |
| 112             | 1 7/8   | 14                     | -                 | 1124,50    | 200200  | 1962,74 |
| 120             | 5       | 15                     | -                 | 1200,00    | 231600  | 2270,58 |



### Teknik Özellikler Technical Specification

- Özgül Ağırlık: 0,96  
- Specific Gravity: 0,96
- Erime Noktası: 185 °C  
- Melting Point: 185 °C
- Kopma Anındaki Uzama: 18%  
- Elongation at Break: 18%
- Su Emilimi: Yok  
- Water Absorption: None
- UV Direnç: Stabilize  
- UV Resistance: Stabilised
- Renk: Turuncu  
- Clour: Orange

### Konstrüksiyon Construction

- 8- ve 12- kollu  
- 8- and 12- strand

### 8 Toronlu / 8 Strand

| Çap<br>Diameter |         | Çevre<br>Circumference | Ağırlık<br>Weight |            | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |         |
|-----------------|---------|------------------------|-------------------|------------|---|---------|
| mm              | inch    | inch                   | kg / 220 m        | kg / 200 m | Ton   | kN      |
| 40              | 1 5/8   | 5                      | 174,00            | 158,18     | 31,100  | 304,90  |
| 44              | 1 3/4   | 5 1/2                  | 213,00            | 193,64     | 37,100  | 363,73  |
| 48              | 1 15/16 | 6                      | 252,00            | 229,09     | 43,600  | 427,45  |
| 52              | 2 1/16  | 6 1/2                  | 295,00            | 268,18     | 50,600  | 496,08  |
| 56              | 2 1/4   | 7                      | 343,00            | 311,82     | 58,100  | 569,61  |
| 60              | 2 3/8   | 7 1/2                  | 395,00            | 359,09     | 66,100  | 648,04  |
| 64              | 2 1/2   | 8                      | 448,00            | 407,27     | 74,600  | 731,37  |
| 68              | 2 15/16 | 8 1/2                  | 505,00            | 459,09     | 83,700  | 820,59  |
| 72              | 2 7/8   | 9                      | 566,00            | 514,55     | 93,300  | 914,71  |
| 76              | 3       | 9 1/2                  | 633,00            | 575,45     | 104,150   | 1021,08 |
| 80              | 3 1/4   | 10                     | 701,00            | 637,27     | 115,000   | 1127,45 |
| 84              | 3 1/2   | 10 1/2                 | 775,00            | 704,55     | 126,500   | 1240,20 |
| 88              | 3 15/16 | 11                     | 850,00            | 772,73     | 138,000   | 1352,94 |
| 96              | 3 3/4   | 12                     | 1007,00           | 915,45     | 163,000   | 1598,04 |
| 100             | 4       | 12 1/2                 | -                 | 998,00     | 176,550   | 1730,88 |
| 104             | 4 1/2   | 13                     | -                 | 1026,00    | 190,100   | 1863,73 |
| 112             | 1 7/8   | 14                     | -                 | 1003,00    | 215,160   | 2109,41 |
| 120             | 5       | 15                     | -                 | 1008,00    | 247,000   | 2421,57 |

### 12 Toronlu / 12 Strand

| Çap<br>Diameter |         | Çevre<br>Circumference | Ağırlık<br>Weight |            | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |         |
|-----------------|---------|------------------------|-------------------|------------|---|---------|
| mm              | inch    | inch                   | kg / 220 m        | kg / 200 m | Ton   | kN      |
| 52              | 2 1/16  | 6 1/2                  | 304,00            | 276,36     | 51,865  | 508,48  |
| 56              | 2 1/4   | 7                      | 353,00            | 320,91     | 59,553  | 583,85  |
| 60              | 2 3/8   | 7 1/2                  | 407,00            | 370,00     | 67,753  | 664,25  |
| 64              | 2 1/2   | 8                      | 461,00            | 419,09     | 76,465  | 749,66  |
| 68              | 2 15/16 | 8 1/2                  | 520,00            | 472,73     | 85,793  | 841,11  |
| 72              | 2 7/8   | 9                      | 583,00            | 530,00     | 95,633  | 937,58  |
| 76              | 3       | 9 1/2                  | 652,00            | 592,73     | 106,754   | 1046,61 |
| 80              | 3 1/4   | 10                     | 722,00            | 656,36     | 117,875   | 1155,64 |
| 88              | 3 15/16 | 11                     | 876,00            | 796,36     | 141,450   | 1386,76 |
| 96              | 3 3/4   | 12                     | 1037,00           | 942,73     | 167,075   | 1637,99 |
| 104             | 4 1/2   | 13                     | 1224,00           | 1112,73    | 194,853   | 1910,32 |
| 108             | 4 15/16 | 13 1/2                 | -                 | 1197,00    | 206,400   | 2023,53 |
| 112             | 1 7/8   | 14                     | -                 | 1130,00    | 221,000   | 2166,67 |
| 120             | 5       | 15                     | -                 | 1160,00    | 252,000   | 2470,59 |

### AVANTAJLAR ADVANTAGES

- Suda yüzen halat  
- Float in the water
- Islakken de ve kuruken de aynı mukavemet  
- Wet strenght equal to dry strenght
- Suyu emmeyen halat  
- Do not absorb water
- Yüksek mukavemet  
- Excellent strenght
- Yüksek sürtünme dayanım  
- Excellent resistance to frictional heat damage

# Maxi Flex İçi Polypropilen Dışı Polyester

Maxi Flex Inner Polypropylene Outer Polyester



## 8 Toronlu / 8 Strand

| Çap<br>Diameter |         | Çevre<br>Circumference | Ağırlık<br>Weight |            | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |         |
|-----------------|---------|------------------------|-------------------|------------|---|---------|
| mm              | inch    | inch                   | kg / 220 m        | kg / 200 m | Ton   | kN      |
| 40              | 1 5/8   | 5                      | 157,96            | 143,60     | 27,400  | 268,63  |
| 44              | 1 3/4   | 5 1/2                  | 193,82            | 176,20     | 34,000  | 333,33  |
| 48              | 1 15/16 | 6                      | 228,80            | 208,00     | 39,600  | 388,24  |
| 52              | 2 1/16  | 6 1/2                  | 267,96            | 243,60     | 45,800  | 449,02  |
| 56              | 2 1/4   | 7                      | 311,96            | 283,60     | 52,400  | 513,73  |
| 60              | 2 3/8   | 7 1/2                  | 358,82            | 326,20     | 60,000  | 588,24  |
| 64              | 2 1/2   | 8                      | 407,00            | 370,00     | 67,900  | 665,69  |
| 68              | 2 15/16 | 8 1/2                  | 460,90            | 419,00     | 76,700  | 751,96  |
| 72              | 2 7/8   | 9                      | 515,02            | 468,20     | 85,200  | 835,29  |
| 80              | 3 1/4   | 10                     | 638,00            | 580,00     | 105,000   | 1029,00 |
| 88              | 3 15/16 | 11                     | 770,22            | 700,20     | 126,000   | 1235,00 |
| 96              | 3 3/4   | 12                     | 916,96            | 833,60     | 149,000   | 1460,00 |
| 104             | 4 1/2   | 13                     | 1078,00           | 980,00     | 170,000   | 1666,67 |
| 112             | 1 7/8   | 14                     | -                 | 1026,00    | 196,000   | 1921,57 |
| 120             | 5       | 15                     | -                 | 1047,00    | 225,000   | 2205,88 |

### Teknik Özellikler Technical Specification

- Özgül Ağırlık: 0,95  
- Specific Gravity: 0,95
- Erime Noktası: 165-265 °C  
- Melting Point: 165-265 °C
- Su Emilimi: Yok  
- Water Absorption: None
- UV Direnç: İyi  
- UV Resistance: Good
- Renk: Beyaz  
- Clour: White

## 12 Toronlu / 12 Strand

| Çap<br>Diameter |         | Çevre<br>Circumference | Ağırlık<br>Weight |            | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |         |
|-----------------|---------|------------------------|-------------------|------------|---|---------|
| mm              | inch    | inch                   | kg / 220 m        | kg / 200 m | Ton   | kN      |
| 52              | 2 1/16  | 6 1/2                  | 276,00            | 250,91     | 46,700  | 457,84  |
| 56              | 2 1/4   | 7                      | 321,00            | 291,82     | 53,450  | 524,02  |
| 60              | 2 3/8   | 7 1/2                  | 370,00            | 336,36     | 61,200  | 600,00  |
| 64              | 2 1/2   | 8                      | 419,00            | 380,91     | 69,250  | 678,92  |
| 72              | 2 7/8   | 9                      | 530,00            | 481,82     | 86,900  | 851,96  |
| 80              | 3 1/4   | 10                     | 657,00            | 597,27     | 107,100   | 1050,00 |
| 88              | 3 15/16 | 11                     | 793,00            | 720,91     | 128,500   | 1259,80 |
| 96              | 3 3/4   | 12                     | 944,00            | 858,18     | 152,000   | 1490,20 |
| 104             | 4 1/2   | 13                     | 1110,00           | 1008,00    | 172,900   | 1695,10 |
| 112             | 1 7/8   | 14                     | -                 | 1167,00    | 200,490   | 1965,59 |
| 120             | 5       | 15                     | -                 | 1210,00    | 229,000   | 2245,10 |
| 108             | 4 15/16 | 15 1/2                 | -                 | 1197,00    | 206,400   | 2023,53 |
| 112             | 1 7/8   | 14                     | -                 | 1130,00    | 221,000   | 2166,67 |
| 120             | 5       | 15                     | -                 | 1160,00    | 252,000   | 2470,59 |

### AVANTAJLAR ADVANTAGES

- Suda yüzen veya batan halat (Müşteri talebine göre)  
- Floats / sinks in the water (As per customer request)
- Islakken de ve kuruken de aynı mukavemet  
- Wet strenght equal to dry strenght
- Suyu emmeyen halat  
- Do not absorb water
- Yüksek mukavemet  
- Excellent strenght
- Yüksek sürtünme dayanım  
- Excellent resistance to frictional heat damage



### 3 ve 4 Toronlu / 3 and 4 Strand

| Çap<br>Diameter |         | Çevre<br>Circumference | Ağırlık<br>Weight |            | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |         |
|-----------------|---------|------------------------|-------------------|------------|---|---------|
| mm              | inch    | inch                   | kg / 220 m        | kg / 200 m | Ton   | kN      |
| 6               | 1/4     | 3/4                    | 3,67              | 3,34       | 0,770   | 7,55    |
| 8               | 5/16    | 1                      | 6,60              | 6,00       | 1,345   | 13,19   |
| 10              | 3/8     | 1 1/4                  | 10,00             | 9,09       | 2,000   | 19,61   |
| 12              | 1/2     | 1 1/2                  | 14,50             | 13,18      | 2,840   | 27,84   |
| 14              | 9/16    | 1 3/4                  | 20,00             | 18,18      | 3,905   | 38,28   |
| 16              | 5/8     | 2                      | 25,50             | 23,18      | 4,900   | 48,04   |
| 18              | 3/4     | 2 1/4                  | 32,50             | 29,55      | 5,500   | 53,92   |
| 20              | 13/16   | 2 1/2                  | 40,00             | 36,36      | 7,520   | 73,73   |
| 22              | 7/8     | 2 3/4                  | 48,50             | 44,09      | 8,450   | 82,84   |
| 24              | 1       | 3                      | 57,00             | 51,82      | 10,200  | 100,00  |
| 26              | 1 1/13  | 3 1/4                  | 67,60             | 61,45      | 11,870  | 116,37  |
| 28              | 1 1/8   | 3 1/2                  | 78,00             | 70,91      | 13,540  | 132,75  |
| 30              | 1 1/4   | 3 3/4                  | 90,00             | 81,82      | 15,482  | 151,78  |
| 32              | 1 5/16  | 4                      | 101,00            | 91,82      | 17,425  | 170,83  |
| 34              | 1 3/8   | 4 1/4                  | 115,60            | 105,09     | 19,262  | 188,84  |
| 36              | 1 7/16  | 4 1/2                  | 129,00            | 117,27     | 21,100  | 206,86  |
| 40              | 1 5/8   | 5                      | 158,00            | 143,64     | 24,980  | 244,90  |
| 44              | 1 3/4   | 5 1/2                  | 193,50            | 175,91     | 30,165  | 295,74  |
| 48              | 1 15/16 | 6                      | 229,00            | 208,18     | 35,350  | 346,57  |
| 52              | 2 1/16  | 6 1/2                  | 268,00            | 243,64     | 43,400  | 425,49  |
| 56              | 2 1/4   | 7                      | 312,00            | 283,64     | 49,400  | 484,31  |
| 60              | 2 3/8   | 7 1/2                  | 358,00            | 325,45     | 56,200  | 550,98  |
| 64              | 2 1/2   | 8                      | 407,00            | 370,00     | 64,100  | 628,43  |
| 68              | 2 15/16 | 8 1/2                  | 460,00            | 418,18     | 72,200  | 707,84  |
| 70              | 2 3/4   | 8 11/16                | 486,00            | 441,82     | 76,200  | 747,06  |
| 72              | 2 7/8   | 9                      | 514,00            | 467,27     | 80,200  | 786,27  |
| 76              | 3       | 9 1/2                  | 574,00            | 521,82     | 89,300  | 875,49  |
| 80              | 3 5/32  | 10                     | 638,00            | 580,00     | 98,400  | 964,71  |
| 84              | 3 1/2   | 10 1/2                 | 705,00            | 640,91     | 108,300   | 1061,76 |
| 88              | 3 15/16 | 11                     | 772,00            | 701,82     | 118,700   | 1163,73 |
| 96              | 3 3/4   | 12                     | 917,00            | 833,64     | 140,600   | 1378,43 |
| 100             | 4       | 12 1/2                 | 994,00            | 903,64     | 151,200   | 1482,35 |

#### Teknik Özellikler Technical Specification

- Özgül Ağırlık: 0,99-1,14  
- Specific Gravity: 0,99-1,14
- Erime Noktası: 165-265 °C  
- Melting Point: 165-265 °C
- Kopma Anındaki Uzama: 18%  
- Elongation at Break: 18%
- Su Emilimi: Yok  
- Water Absorption: None
- UV Direnç: Stabilize  
- UV Resistance: Stabilised
- Renk: Beyaz  
- Clour: White

#### Konstrüksiyon Construction

- 3-,4-,8- ve 12- kollu  
- 3-,4-,8- and 12- strand

#### AVANTAJLAR ADVANTAGES

- Suda yüzen veya batan halat (Müşteri talebine göre)  
- Floats / sinks in the water (As per customer request)
- Islakken de ve kuruken de aynı mukavemet  
- Wet strenght equal to dry strenght
- Suyu emmeyen halat  
- Do not absorb water
- Yüksek ısıya ve kimyasallara maksimum direnç (Alkali kimyasal hariç)  
- Excellent resistance to frictional heat damaged and chemicals (Except alcalis)
- Yüksek sürtünme dayanım  
- Excellent resistance to frictional heat damage
- Yüksek şok yük absorbe etme özelliği  
- Excellent shock-load absorption



Verilen değerler ve karakteristikler  
3-, 4-, 8- ve 12- kollu halatlar için  
geçerlidir.

Given values and properties are for  
all 3-, 8- and 12- strand rope.

**8 Toronlu / 8 Strand**

| Çap<br>Diameter |         | Çevre<br>Circumference | Ağırlık<br>Weight |            | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |         |
|-----------------|---------|------------------------|-------------------|------------|---|---------|
| mm              | inch    | inch                   | kg / 220 m        | kg / 200 m | Ton   | kN      |
| 36              | 1 7/16  | 4 1/2                  | 132,00            | 120,00     | 24,800  | 243     |
| 40              | 1 5/8   | 5                      | 192,50            | 175,00     | 34,200  | 335     |
| 44              | 1 3/4   | 5 1/2                  | 228,80            | 208,00     | 40,800  | 400     |
| 48              | 1 15/16 | 6                      | 264,00            | 240,00     | 47,400  | 465     |
| 52              | 2 1/16  | 6 1/2                  | 310,20            | 282,00     | 55,500  | 544     |
| 56              | 2 1/4   | 7                      | 345,40            | 314,00     | 63,200  | 620     |
| 60              | 2 3/8   | 7 1/2                  | 402,60            | 366,00     | 72,400  | 710     |
| 64              | 2 1/2   | 8                      | 453,20            | 412,00     | 81,600  | 800     |
| 68              | 2 15/16 | 8 1/2                  | 510,40            | 464,00     | 91,800  | 900     |
| 72              | 2 7/8   | 9                      | 567,60            | 516,00     | 102,000   | 1000    |
| 76              | 3       | 9 1/2                  | 622,60            | 566,00     | 112,000   | 1098    |
| 80              | 3 1/4   | 10                     | 701,80            | 638,00     | 125,000   | 1225    |
| 88              | 3 15/16 | 11                     | 836,00            | 760,00     | 148,000   | 1451    |
| 96              | 3 3/4   | 12                     | 983,40            | 894,00     | 174,000   | 1706    |
| 104             | 4 1/2   | 13                     | 1155,00           | 1050,00    | 198,300   | 1944    |
| 112             | 1 7/8   | 14                     | -                 | 1254,00    | 230,800   | 2263    |
| 120             | 5       | 15                     | -                 | 1120,00    | 263,000   | 2578,43 |
| 112             | 1 7/8   | 14                     | -                 | 1026,40    | 195,600   | 1917,65 |
| 116             | 4 3/4   | 14 1/2                 | -                 | 1008,60    | 207,030   | 2029,71 |
| 120             | 5       | 15                     | -                 | 1047,00    | 224,600   | 2201,96 |

**12 Toronlu / 12 Strand**

| Çap<br>Diameter |         | Çevre<br>Circumference | Ağırlık<br>Weight |            | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |         |
|-----------------|---------|------------------------|-------------------|------------|---|---------|
| mm              | inch    | inch                   | kg / 220 m        | kg / 200 m | Ton   | kN      |
| 52              | 2 1/16  | 6 1/2                  | 327,00            | 297,27     | 64,300  | 630     |
| 56              | 2 1/4   | 7                      | 371,00            | 337,27     | 72,800  | 714     |
| 60              | 2 3/8   | 7 1/2                  | 417,00            | 379,09     | 81,200  | 796     |
| 64              | 2 1/2   | 8                      | 463,00            | 420,91     | 90,400  | 886     |
| 68              | 2 15/16 | 8 1/2                  | 540,00            | 490,91     | 104,100   | 1021    |
| 72              | 2 7/8   | 9                      | 586,00            | 532,73     | 113,100   | 1109    |
| 76              | 3       | 9 1/2                  | 692,00            | 629,09     | 134,100   | 1315    |
| 80              | 3 1/4   | 10                     | 765,00            | 695,45     | 148,100   | 1452    |
| 88              | 3 15/16 | 11                     | 912,00            | 829,09     | 175,100   | 1717    |
| 96              | 3 3/4   | 12                     | 1075,00           | 977,27     | 205,100   | 2011    |
| 104             | 4 1/2   | 13                     | 1237,00           | 1124,55    | 235,100   | 2305    |
| 112             | 1 7/8   | 14                     | -                 | 1310,00    | 268,000   | 2627    |
| 120             | 5       | 15                     | -                 | 1350,00    | 307,500   | 3014    |
| 112             | 1 7/8   | 14                     | -                 | 1124,50    | 200,200   | 1962,74 |
| 120             | 5       | 15                     | -                 | 1200,00    | 231,600   | 2270,58 |

## Poliamid ( % 100 Naylon ) Polyamide ( 100 % Nylon )



### 3 ve 4 Toronlu / 3 and 4 Strand

| Çap<br>Diameter |         | Çevre<br>Circumference | Ağırlık<br>Weight |            | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |         |
|-----------------|---------|------------------------|-------------------|------------|---|---------|
| mm              | inch    | inch                   | kg / 220 m        | kg / 200 m | Ton   | kN      |
| 6               | 7/32    | 3/4                    | 5,20              | 4,73       | 0,749   | 7,34    |
| 8               | 5/16    | 1                      | 9,20              | 8,36       | 1,346   | 13,20   |
| 10              | 3/8     | 1 1/4                  | 14,30             | 13,00      | 2,080   | 20,39   |
| 12              | 1/2     | 1 1/2                  | 20,61             | 18,74      | 2,999   | 29,40   |
| 14              | 9/16    | 1 3/4                  | 28,10             | 25,55      | 4,100   | 40,20   |
| 16              | 5/8     | 2                      | 36,50             | 33,18      | 5,304   | 52,00   |
| 18              | 3/4     | 2 1/4                  | 46,20             | 42,00      | 6,732   | 66,00   |
| 20              | 13/16   | 2 1/2                  | 57,20             | 52,00      | 8,262   | 81,00   |
| 22              | 7/8     | 2 3/4                  | 69,00             | 62,73      | 9,996   | 98,00   |
| 24              | 1       | 3                      | 82,00             | 74,55      | 12,036  | 118,00  |
| 28              | 1 1/8   | 3 1/2                  | 112,00            | 101,82     | 15,810  | 155,00  |
| 30              | 1 1/4   | 3 3/4                  | 128,00            | 116,36     | 17,900  | 175,49  |
| 32              | 1 5/16  | 4                      | 146,00            | 132,73     | 19,992  | 196,00  |
| 34              | 1 3/8   | 4 1/4                  | 165,00            | 150,00     | 22,500  | 220,59  |
| 36              | 1 7/16  | 4 1/2                  | 176,00            | 160,00     | 24,000  | 235,29  |
| 40              | 1 5/8   | 5                      | 218,00            | 198,18     | 29,100  | 285,29  |
| 44              | 1 3/4   | 5 1/2                  | 264,00            | 240,00     | 34,200  | 335,29  |
| 48              | 1 15/16 | 6                      | 312,00            | 283,64     | 40,300  | 395,10  |
| 52              | 2 1/16  | 6 1/2                  | 364,00            | 330,91     | 47,000  | 460,78  |
| 56              | 2 1/4   | 7                      | 424,00            | 385,45     | 53,400  | 523,53  |
| 60              | 2 3/8   | 7 1/2                  | 486,00            | 441,82     | 61,500  | 602,94  |
| 64              | 2 1/2   | 8                      | 554,00            | 503,64     | 69,000  | 676,47  |
| 70              | 2 3/4   | 8 11/16                | 664,00            | 603,64     | 82,000  | 803,92  |
| 72              | 2 7/8   | 9                      | 700,00            | 636,36     | 85,500  | 838,24  |
| 80              | 3 1/4   | 10                     | 866,00            | 787,27     | 104,000   | 1019,61 |
| 88              | 3 15/16 | 11                     | 1048,00           | 952,73     | 124,500   | 1220,59 |
| 90              | 3 9/16  | 11 1/8                 | 1096,00           | 996,36     | 130,200   | 1276,47 |

#### Teknik Özellikler Technical Specification

- Özgül Ağırlık: 1,14  
- Specific Gravity: 1,14
- Erime Noktası: 220 °C  
- Melting Point: 220 °C
- Su Emilimi: Orta  
- Water Absorption: Good
- UV Direnç: Ortalama  
- UV Resistance: Average

- Renk: Beyaz  
- Clour: White

#### Konstrüksiyon Construction

- 3-,4-,8- ve 12- kolları  
- 3-,4-,8- and 12- strand

#### AVANTAJLAR ADVANTAGES

- Suda batan halat  
- Sinks in the water
- Islakken daha düşük mukavemet  
- Strength declines when wet
- Yüksek sürtünme dayanım  
- Excellent resistance to frictional heat damage
- Yüksek şok yük absorbe etme özelliği  
- Excellent shock-load absorption



Verilen değerler ve karakteristikler  
3-, 4-, 8- ve 12- kolları için  
geçerlidir.

Given values and properties are for  
all 3-, 8- and 12- strand rope.

## Poliamid / % 100 Naylon

Polyamide / 100 % Nylon



### 8 Toronlu / 8 Strand

| Çap<br>Diameter |         | Çevre<br>Circumference | Ağırlık<br>Weight |            | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |         |
|-----------------|---------|------------------------|-------------------|------------|---|---------|
| mm              | inch    | inch                   | kg / 220 m        | kg / 200 m | Ton   | kN      |
| 36              | 1 7/16  | 4 1/2                  | 185,30            | 168,45     | 25,000  | 245,10  |
| 40              | 1 5/8   | 5                      | 228,00            | 207,27     | 30,000  | 294,12  |
| 44              | 1 3/4   | 5 1/2                  | 277,00            | 251,82     | 36,000  | 352,94  |
| 48              | 1 15/16 | 6                      | 330,00            | 300,00     | 42,000  | 411,76  |
| 52              | 2 1/16  | 6 1/2                  | 387,00            | 351,82     | 49,000  | 480,39  |
| 56              | 2 1/4   | 7                      | 449,00            | 408,18     | 56,000  | 549,02  |
| 60              | 2 3/8   | 7 1/2                  | 512,00            | 465,45     | 64,000  | 627,45  |
| 64              | 2 1/2   | 8                      | 579,00            | 526,36     | 72,000  | 705,88  |
| 68              | 2 15/16 | 8 1/2                  | 666,00            | 605,45     | 81,000  | 794,12  |
| 70              | 2 3/4   | 8 11/16                | 702,00            | 638,18     | 85,000  | 803,92  |
| 72              | 2 7/8   | 9                      | 739,00            | 671,82     | 90,000  | 882,35  |
| 76              | 3       | 9 1/2                  | 822,00            | 747,27     | 100,000   | 980,39  |
| 80              | 3 1/4   | 10                     | 913,00            | 830,00     | 110,000   | 1078,43 |
| 84              | 3 1/2   | 10 1/2                 | 1005,00           | 913,64     | 120,000   | 1176,47 |
| 88              | 3 15/16 | 11                     | 1100,00           | 1000,00    | 131,000   | 1284,31 |
| 92              | 3 7/8   | 11 1/2                 | 1221,00           | 1110,00    | 143,179   | 1403,72 |
| 96              | 3 3/4   | 12                     | 1300,00           | 1181,00    | 154,000   | 1509,80 |
| 104             | 4 1/2   | 13                     | -                 | 1400,00    | 178,000   | 1745,10 |
| 112             | 1 7/8   | 14                     | -                 | 1295,00    | 207,200   | 2031,37 |
| 120             | 5       | 15                     | -                 | 1403,00    | 235,800   | 2311,76 |

### 12 Toronlu / 12 Strand

| Çap<br>Diameter |         | Çevre<br>Circumference | Ağırlık<br>Weight |            | Minimum Kopma Yüğü<br>Minimum Breaking Load (MBL) |         |
|-----------------|---------|------------------------|-------------------|------------|---|---------|
| mm              | inch    | inch                   | kg / 220 m        | kg / 200 m | Ton   | kN      |
| 52              | 2 1/16  | 6 1/2                  | 387,00            | 351,82     | 54,000  | 529,41  |
| 56              | 2 1/4   | 7                      | 449,00            | 408,18     | 61,200  | 600,00  |
| 60              | 2 3/8   | 7 1/2                  | 512,00            | 465,45     | 70,400  | 690,20  |
| 64              | 2 1/2   | 8                      | 579,00            | 526,36     | 79,200  | 776,47  |
| 68              | 2 15/16 | 8 1/2                  | 666,00            | 605,45     | 89,000  | 872,55  |
| 72              | 2 7/8   | 9                      | 739,00            | 671,82     | 98,900  | 969,61  |
| 76              | 3       | 9 1/2                  | 822,00            | 747,27     | 110,000   | 1078,43 |
| 80              | 3 5/32  | 10                     | 913,00            | 830,00     | 121,000   | 1186,27 |
| 84              | 3 1/2   | 10 1/2                 | 1000,00           | 909,09     | 132,000   | 1294,12 |
| 88              | 3 7/16  | 11                     | 1100,00           | 1000,00    | 144,100   | 1412,75 |
| 92              | 3 7/8   | 11 1/2                 | 1110,00           | 1009,09    | 157,000   | 1539,22 |
| 96              | 3 13/16 | 12                     | 1339,00           | 1217,00    | 169,000   | 1656,66 |
| 100             | 3 15/16 | 12 3/8                 | 1420,00           | 1290,91    | 176,000   | 1725,49 |
| 104             | 4 1/2   | 13                     | -                 | 1400,00    | 181,300   | 1777,45 |
| 112             | 1 7/8   | 14                     | -                 | 1304,00    | 208,000   | 2039,22 |
| 120             | 5       | 15                     | -                 | 1403,00    | 238,076   | 2334,08 |