

PRODUCT GUIDE: SEWING THREAD

SOLUTIONS BEGIN WITH A SINGLE THREAD





SEWING THREAD: SOLUTIONS BEGIN WITH A SINGLE THREAD

Finding a solution to an application challenge often comes down to basics. Performance Fibers' expanding line of sewing thread yarns makes it easier to customize and meet the sophisticated technical needs of our customers. And our availability around the globe means low inventory and responsive service for our customers.

Applications include:

embroidery, outdoor fabrics, awnings, banners, flags, outdoor signs, braided cords, leather goods, shoes, technical textiles and apparel.

FEATURES AND BENEFITS:

- Our full range of high quality, low-denier thread and high-denier yarns enables customers to cover a wide variety of sewing and embroidery applications
- The high tensile strength and conformity of properties of our sewing thread yarns helps to make them a great choice for many applications
- Dyeability is a key feature of our threads, making them the right choice when color is important
- Yarns can be used for all continuous filament, core-spun sewing threads, as well as embroidery applications
- Performance Fibers can deliver flexibility in packaging and yarn make-ups

(architectural design)

(commercial&industrial)

(energy)

(environment)

(lifestyle&leisure)

(safety&security)

(transportation)

Although Performance Fibers believes that the suggestions regarding the possible uses of the products as well as the other statements contained in this publication are accurate and reliable, they are presented without guarantee or responsibility of any kind and are not representations or warranties of Performance Fibers, either express or implied. Information provided herein does not relieve the user from the responsibility of carrying out its own tests and experiments and the user assumes all risks and liability (including, but not limited to, risks relating to results, patent infringement and health, safety and the environment) for the results obtained by the use of the products and suggestions contained herein. © 2009 Performance Fibers

U.S.: +1 800 486 0148
 Europe: +352 265 033 67
 China: +86 21 5228 5511
 Malaysia: +60 32 175 0008
 India: +91 981 009 6182
 Mexico: +52 442 211 3046

www.performancefibers.com

| Sewing Thread (Part 1) | | | | | | | | | | | | | | | | | | |
|------------------------|--------------------|-------|---------------|--------|------|--------|-------|----------------|--------------|---------|-------------------|------|------|----------|-----------|--------------------|---|---|
| Product | Features/ Benefits | Color | North America | Europe | Asia | Denier | Dtex | Filament Count | Intermingled | Twisted | Breaking Strength | | | Tenacity | | Elongation @ break | Hot Air Shrinkage 180°C zero load-15min | Hot Air Shrinkage 177°C zero load-30min |
| | | | | | | | | | (V0) | (T/m) | (lbs) | (kg) | (N) | (g/d) | (cN/dtex) | (%) | (%) | (%) |
| 200 | Elastic | | | X | | 86 | 95 | 32 | | S10 | 0.7 | 0.3 | 3.3 | 3.9 | 3.4 | 45 | 15 | |
| 283 | Low Shrinkage | | X | | | 170 | 188 | 33 | | Z10 | 3 | 1.36 | 13.3 | 8 | 7.1 | 20 | | 6 |
| | | | | | | 205 | 228 | 33 | | Z10 | 3.62 | 1.65 | 16.1 | 8 | 7.1 | 20 | | 6 |
| | | | | | | 220 | 244 | 48 | | Z10 | 3.8 | 1.73 | 17 | 7.9 | 7 | 19 | | 6 |
| | | | | | | 250 | 278 | 48 | | Z10 | 4.4 | 2 | 19.6 | 7.9 | 7 | 19 | | 6 |
| | | | | | | 440 | 489 | 96 | V0 | Z10 | 7.7 | 3.5 | 34.2 | 7.9 | 7 | 19 | | 8 |
| 707 | Embroidery | | | X | | 100 | 110* | 40 | V0 | Z10 | 1.2 | 0.5 | 5.2 | 5.3 | 4.7 | 23 | 3 | |
| | | | | | | 118 | 130* | 40 | V0 | Z10 | 1.3 | 0.6 | 5.8 | 5.1 | 4.5 | 21 | 3 | |
| | | | | | | 114 | 125** | 48 | V0 | Z10 | 1.4 | 0.7 | 6.4 | 5.8 | 5.1 | 23 | 3.5 | |
| | | | | | | 152 | 167* | 40 | V0 | Z10 | 1.6 | 0.7 | 7 | 4.8 | 4.2 | 21 | 2.5 | |
| | | | | | | 100 | 111* | 48 | | Z10 | 1.3 | 0.6 | 5.8 | 5.6 | 4.9 | 21 | | 3.5 |
| | | | | | | 120 | 133* | 48 | | Z10 | 1.5 | 0.7 | 6.7 | 5.8 | 5.1 | 19 | | 6 |

V0 = intermingling with no twist; S10 = S-Twist 10 t/m; Z10 = Z-Twist 10 t/m; * profile trilobal; ** profile triangular; Various color shades available on request

CONTINUED >>>

Although Performance Fibers believes that the suggestions regarding the possible uses of the products as well as the other statements contained in this publication are accurate and reliable, they are presented without guarantee or responsibility of any kind and are not representations or warranties of Performance Fibers, either express or implied. Information provided herein does not relieve the user from the responsibility of carrying out its own tests and experiments and the user assumes all risks and liability (including, but not limited to, risks relating to results, patent infringement and health, safety and the environment) for the results obtained by the use of the products and suggestions contained herein. © 2009 Performance Fibers

U.S.: +1 800 486 0148
 Europe: +352 265 033 67
 China: +86 21 5228 5511
 Malaysia: +60 32 175 0008
 India: +91 981 009 6182
 Mexico: +52 442 211 3046

www.performancefibers.com

| Sewing Thread (Part 2) | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--------------------|-------|---------------|--------|------|--------|------|----------------|--------------|---------|-------------------|------|-------|----------|-----------|--------------------|---|---|-----|---|----|--|---|
| Product | Features/ Benefits | Color | North America | Europe | Asia | Denier | Dtex | Filament Count | Intermingled | Twisted | Breaking Strength | | | Tenacity | | Elongation @ break | Hot Air Shrinkage 180°C zero load-15min | Hot Air Shrinkage 177°C zero load-30min | | | | | |
| | | | | | | | | | (V0) | (T/m) | (lbs) | (kg) | (N) | (g/d) | (cN/dtex) | (%) | (%) | (%) | | | | | |
| 712 | Low Shrinkage | | | X | | 30 | 33 | 16 | | S10 | 0.51 | 0.23 | 2.25 | 7.7 | 6.8 | 16 | 5 | | | | | | |
| | | | | | | 45 | 49 | 16 | | S10 | 0.79 | 0.36 | 3.5 | 8.04 | 7.1 | 15 | 5 | | | | | | |
| | | | | | | 50 | 55 | 24 | | S10 | 0.92 | 0.42 | 4.1 | 8.33 | 7.35 | 12.5 | 6 | | | | | | |
| | | | | | | 55 | 61 | 24 | | S10 | 0.99 | 0.45 | 4.4 | 8.04 | 7.1 | 15 | 5 | | | | | | |
| | | | | | | 61 | 67 | 24 | V0 | S10 | 1.08 | 0.49 | 4.8 | 8.1 | 7.15 | 16 | 5 | | | | | | |
| | | | | | | 67 | 74 | 24 | | S10 | 1.21 | 0.55 | 5.4 | 8.04 | 7.1 | 16 | 5 | | | | | | |
| | | | | | | 77 | 85 | 32 | V0 | S10 | 1.37 | 0.62 | 6.1 | 8.04 | 7.1 | 15 | 5 | | | | | | |
| | | | | | | 86 | 95 | 32 | V0 | S10 | 1.53 | 0.69 | 6.8 | 8.04 | 7.1 | 16 | 5 | | | | | | |
| | | | | | | 91 | 100 | 32 | | S10 | 1.61 | 0.73 | 7.15 | 8.04 | 7.1 | 16 | 5 | | | | | | |
| | | | | | | 103 | 113 | 32 | | S10 | 1.81 | 0.82 | 8.05 | 8.04 | 7.1 | 15 | 5 | | | | | | |
| | | | | | | 123 | 135 | 32 | | S10 | 2.17 | 0.98 | 9.65 | 8.04 | 7.1 | 16 | 5 | | | | | | |
| | | | | | | 125 | 138 | 32 | V0 | S10 | 2.21 | 1 | 9.85 | 8.04 | 7.1 | 16 | 5 | | | | | | |
| | | | | | | 136 | 150 | 48 | | S10 | 2.41 | 1.09 | 10.7 | 8.04 | 7.1 | 15 | 5 | | | | | | |
| | | | | | | 173 | 190 | 48 | | S10 | 3.08 | 1.4 | 13.7 | 8.04 | 7.1 | 16 | 5 | | | | | | |
| | | | | | | 182 | 200 | 48 | V0 | | 3.19 | 1.45 | 14.2 | 8.04 | 7.1 | 15 | 5 | | | | | | |
| | | | | | | 205 | 226 | 64 | V0 | S10 | 3.64 | 1.65 | 16.2 | 8.1 | 7.15 | 15 | 5 | | | | | | |
| | | | | | | 227 | 250 | 64 | V0 | S10 | 4.05 | 1.84 | 18 | 8.1 | 7.15 | 15 | 5 | | | | | | |
| | | | | | | 250 | 275 | 64 | V0 | S10 | 4.4 | 1.99 | 19.55 | 8.04 | 7.1 | 15 | 5 | | | | | | |
| | | | | | | 300 | 330 | 96 | | S10 | 5.26 | 2.39 | 23.4 | 8.04 | 7.1 | 14 | 5 | | | | | | |
| | | | | | | 414 | 455 | 96 | V0 | S10 | 7.24 | 3.28 | 32.2 | 7.93 | 7 | 14 | 5 | | | | | | |
| | | | | | | 600 | 660 | 200 | V0 | | 10.57 | 4.79 | 47 | 7.93 | 7 | 17.5 | 5.5 | | | | | | |
| | | | | | | 755 | 830 | 200 | V0 | | 13.38 | 6.07 | 59.5 | 8.04 | 7.1 | 18 | 5.5 | | | | | | |
| | | | | | | 855 | 940 | 200 | V0 | | 15.06 | 6.83 | 67 | 7.99 | 7.05 | 18 | 5.5 | | | | | | |
| | | | | | | | | | | | 55 | 61 | 24 | | Z10 | 1 | 0.45 | 4.3 | 7.9 | 7 | 20 | | 4 |
| | | | | | | | | | | | 67 | 74 | 24 | | Z10 | 1.2 | 0.55 | 5.3 | 7.9 | 7 | 20 | | 4 |
| | | | | | | | | | | | 85 | 94 | 33 | | Z10 | 1.5 | 0.68 | 6.7 | 7.9 | 7 | 20 | | 4 |
| | | | | | | | | | | | 90 | 100 | 33 | | Z10 | 1.6 | 0.73 | 7.1 | 7.9 | 7 | 20 | | 4 |
| | | | | | | | | | | | 110 | 122 | 33 | | Z10 | 1.9 | 0.86 | 8.5 | 7.9 | 7 | 20 | | 4 |
| | | | | | 125 | 139 | 33 | | Z10 | 2.2 | 1 | 9.8 | 7.9 | 7 | 20 | | 4 | | | | | | |
| | | | | | 140 | 156 | 48 | | Z10 | 2.4 | 1.09 | 10.7 | 7.9 | 7 | 20 | | 4 | | | | | | |

V0 = intermingling with no twist; S10 = S-Twist 10 t/m; Z10 = Z-Twist 10 t/m; Various color shades available on request

CONTINUED >>>

(architectural design)

(commercial&industrial)

(energy)

(environment)

(lifestyle&leisure)

(safety&security)

(transportation)

Although Performance Fibers believes that the suggestions regarding the possible uses of the products as well as the other statements contained in this publication are accurate and reliable, they are presented without guarantee or responsibility of any kind and are not representations or warranties of Performance Fibers, either express or implied. Information provided herein does not relieve the user from the responsibility of carrying out its own tests and experiments and the user assumes all risks and liability (including, but not limited to, risks relating to results, patent infringement and health, safety and the environment) for the results obtained by the use of the products and suggestions contained herein. © 2009 Performance Fibers

U.S.: +1 800 486 0148
 Europe: +352 265 033 67
 China: +86 21 5228 5511
 Malaysia: +60 32 175 0008
 India: +91 981 009 6182
 Mexico: +52 442 211 3046

www.performancefibers.com

| Sewing Thread (Part 3) | | | | | | | | | | | | | | | | | | |
|------------------------|--------------------|-------|---------------|--------|-------|--------|-------|----------------|--------------|---------|-------------------|------|-------|----------|-----------|--------------------|---|---|
| Product | Features/ Benefits | Color | North America | Europe | Asia | Denier | Dtex | Filament Count | Intermingled | Twisted | Breaking Strength | | | Tenacity | | Elongation @ break | Hot Air Shrinkage 180°C zero load-15min | Hot Air Shrinkage 177°C zero load-30min |
| | | | | | | | | | (V0) | (T/m) | (lbs) | (kg) | (N) | (g/d) | (cN/dtex) | (%) | (%) | (%) |
| 732 | High Shrinkage | | | X | | 67 | 74 | 24 | S10 | S10 | 1.19 | 0.54 | 5.3 | 8.04 | 7.1 | 12.5 | 14 | |
| | | | | | | 103 | 113 | 32 | | S10 | 1.8 | 0.82 | 8 | 8.04 | 7.1 | 13.5 | 14 | |
| | | | | | | 125 | 138 | 32 | | S10 | 2.2 | 1 | 9.8 | 8.04 | 7.1 | 14 | 14 | |
| | | | | | | 136 | 150 | 48 | | S10 | 2.39 | 1.09 | 10.65 | 8.04 | 7.1 | 14 | 14 | |
| | | | | | | 173 | 190 | 48 | S10 | S10 | 3.03 | 1.38 | 13.5 | 8.04 | 7.1 | 14.5 | 14 | |
| | | | | | | 205 | 226 | 64 | V0 | | 3.53 | 1.6 | 15.7 | 7.93 | 7 | 10.5 | 14 | |
| | | | 255 | 280 | 48 | V0 | | 3.75 | 1.7 | 16.7 | 6.8 | 6 | 13 | 14 | | | | |
| | | | 414 | 455 | 96 | V0 | | 7.06 | 3.2 | 31.4 | 7.7 | 6.8 | 13 | 13.5 | | | | |
| | | | 220 | 244 | 48 | V0 | Z10 | 4 | 1.82 | 17.8 | 8.3 | 7.3 | 17 | | 10.5 | | | |
| | | | 440 | 489 | 96 | V0 | Z10 | 8.1 | 3.68 | 36 | 8 | 7.1 | 17 | | 8 | | | |
| | | | 136 | 150 | 48 | | Z10 | 2.18 | 0.99 | 9.7 | 6.8 | 6 | 14.5 | 13 | | | | |
| | | | 205 | 226 | 64 | V0 | | 3.19 | 1.45 | 14.2 | 6.8 | 6 | 14 | 13 | | | | |
| | | 250 | 275 | 64 | V0 | | 4.09 | 1.86 | 18.2 | 6.68 | 5.9 | 13 | 13 | | | | | |
| | | 414 | 455 | 128 | V0 | | 6.5 | 2.95 | 28.9 | 6.68 | 5.9 | 14 | 13 | | | | | |
| | | 755 | 830 | 256 | V0 | | 12.14 | 5.51 | 54 | 6.68 | 5.9 | 13.5 | 13 | | | | | |
| | | 103 | 113 | 32 | V0 | | 1.57 | 0.71 | 7 | 6.8 | 6 | 12 | 13 | | | | | |
| | | 136 | 150 | 48 | | Z10 | 2.16 | 0.98 | 9.6 | 6.8 | 6 | 12 | 13.5 | | | | | |
| | | 205 | 226 | 64 | V0 | | 3.17 | 1.44 | 14.1 | 6.8 | 6 | 12 | 13.5 | | | | | |
| | | 250 | 275 | 64 | V0 | | 4.16 | 1.89 | 18.5 | 6.8 | 6 | 12 | 13.5 | | | | | |
| | | 414 | 455 | 128 | V0 | | 6.5 | 2.95 | 28.9 | 6.68 | 5.9 | 12 | 13.5 | | | | | |
| | | 755 | 830 | 256 | V0 | | 12.14 | 5.51 | 54 | 6.68 | 5.9 | 12.5 | 13.5 | | | | | |
| | | 855 | 940 | 200 | V0 | | 15.29 | 6.93 | 68 | 8.04 | 7.1 | 14.5 | 14 | | | | | |
| | | 1000 | 1100 | 200 | V0 | | 18.43 | 8.36 | 82 | 8.21 | 7.25 | 14 | 13.5 | | | | | |
| | | 136 | 150 | 48 | | Z10 | 2.18 | 0.99 | 9.7 | 6.8 | 6 | 14 | 13 | | | | | |
| 205 | 226 | 64 | V0 | | 3.19 | 1.45 | 14.2 | 6.8 | 6 | 14 | 13 | | | | | | | |
| 250 | 275 | 64 | V0 | | 4.09 | 1.86 | 18.2 | 6.68 | 5.9 | 13 | 13 | | | | | | | |
| 414 | 455 | 128 | V0 | | 6.5 | 2.95 | 28.9 | 6.68 | 5.9 | 13 | 13 | | | | | | | |
| 755 | 830 | 256 | V0 | | 12.14 | 5.51 | 54 | 6.68 | 5.9 | 13 | 13.5 | | | | | | | |
| 1000 | 1100 | 256 | V0 | | 14.61 | 6.63 | 65 | 6.46 | 5.7 | 13.5 | 13.5 | | | | | | | |
| 225 | 250 | 48 | V0 | Z10 | 3.8 | 1.73 | 16.9 | 7.7 | 6.8 | 12 | | 11 | | | | | | |
| 450 | 500 | 96 | | Z10 | 7.2 | 3.27 | 32 | 7.4 | 6.5 | 12 | | 11 | | | | | | |
| 150 | 165 | 33 | V0 | Z10 | 2.3 | 1.05 | 10.3 | 7 | 6.2 | 19 | | 5 | | | | | | |
| 350 | 389 | 96 | V0 | Z10 | 5.6 | 2.55 | 24.9 | 7.2 | 6.4 | 16 | | 16 | | | | | | |
| 736 | High Shrinkage | Black | X | | | | | | | | | | | | | | | |
| 775 | Bright | | X | | | | | | | | | | | | | | | |

V = intermingled with no twist; S10 = S-Twist 10 t/m; Z10 = Z-Twist 10 t/m; Various color shades available on request

(architectural design)

(commercial&industrial)

(energy)

(environment)

(lifestyle&leisure)

(safety&security)

(transportation)

U.S.: +1 800 486 0148
 Europe: +352 265 033 67
 China: +86 21 5228 5511
 Malaysia: +60 32 175 0008
 India: +91 981 009 6182
 Mexico: +52 442 211 3046

www.performancefibers.com

OUR EXTENDED FAMILY OF PRODUCTS



automotive safety
coated fibers & fabrics
engineered reinforcements
geotextile & geogrid
narrow fabrics
offshore mooring
rope & cordage
sewing thread
single end cord
tire reinforcements
treated fabrics

specialty yarns:
multiplex
nylon 6
PBT
PEEK

(architectural design)

(commercial&industrial)

(energy)

(environment)

(lifestyle&leisure)

(safety&security)

(transportation)