Shade card

Farbenkarte

Carte de coloris

Cartella colori

Carta de colores

# MARA

MCT
MICROCORE
TECHNOLOGY

100 % Polyester

100 % Polyester

100 % Polyester

100 % Poliestere

100 % Poliéster

Gütermann

Gütermann

## Index of shades in numerical order
## Verzeichnis der Farben nach Nummern geordnet
## Liste des coloris par ordre numérique
## Elenco dei colori in ordine numerico
## Lista de los colores puestos por orden numérico

| Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 124 | 4 | 223 | 19 | 328 | 20 | 457 | 25 | 633 | 27 | 780 | 5 | 946 | 20 | 2017 | 12 | 3727 | 24 | 4064 | 11 | 6747 | 11 |
| 3 | 1 | 125 | 13 | 224 | 24 | 331 | 19 | 461 | 13 | 634 | 28 | 786 | 17 | 955 | 12 | 2037 | 12 | 3732 | 24 | 4079 | 10 | 6808 | 14 |
| 5 | 7 | 126 | 12 | 226 | 9 | 332 | 20 | 463 | 15 | 635 | 27 | 788 | 19 | 959 | 16 | 2086 | 18 | 3772 | 2 | 4085 | 25 | 7112 | 10 |
| 6 | 7 | 127 | 14 | 227 | 8 | 334 | 22 | 464 | 4 | 636 | 27 | 799 | 29 | 963 | 19 | 2091 | 25 | 3776 | 1 | 4147 | 3 | 7312 | 22 |
| 7 | 1 | 128 | 14 | 230 | 12 | 336 | 22 | 467 | 26 | 639 | 23 | 800 | 1 | 965 | 17 | 2111 | 29 | 3784 | 15 | 4236 | 24 | 7347 | 20 |
| 8 | 28 | 129 | 14 | 232 | 16 | 339 | 17 | 469 | 5 | 643 | 27 | 802 | 3 | 966 | 17 | 2167 | 19 | 3785 | 8 | 4248 | 11 | 7568 | 27 |
| 11 | 17 | 130 | 12 | 234 | 20 | 340 | 23 | 472 | 21 | 649 | 3 | 810 | 14 | 967 | 17 | 2186 | 6 | 3789 | 1 | 4298 | 23 | 7616 | 21 |
| 12 | 10 | 131 | 4 | 235 | 21 | 350 | 2 | 473 | 8 | 650 | 3 | 815 | 5 | 968 | 2 | 2243 | 9 | 3791 | 3 | 4335 | 1 | 7718 | 21 |
| 13 | 17 | 132 | 27 | 237 | 22 | 351 | 9 | 474 | 12 | 655 | 15 | 816 | 6 | 972 | 26 | 2244 | 9 | 3796 | 1 | 4401 | 16 | 7814 | 3 |
| 16 | 9 | 139 | 6 | 239 | 21 | 352 | 28 | 478 | 12 | 656 | 15 | 817 | 6 | 979 | 7 | 2246 | 16 | 3808 | 14 | 4427 | 10 | 7905 | 29 |
| 18 | 21 | 141 | 29 | 241 | 27 | 362 | 2 | 480 | 5 | 658 | 8 | 818 | 23 | 982 | 7 | 2254 | 9 | 3811 | 26 | 4469 | 18 | 7946 | 25 |
| 19 | 4 | 143 | 15 | 245 | 8 | 364 | 9 | 482 | 18 | 659 | 11 | 821 | 24 | 984 | 10 | 2329 | 13 | 3826 | 25 | 4502 | 13 | 7996 | 7 |
| 21 | 26 | 148 | 24 | 247 | 12 | 365 | 9 | 483 | 19 | 660 | 11 | 824 | 24 | 985 | 11 | 2355 | 9 | 3830 | 4 | 4519 | 13 | 8102 | 28 |
| 22 | 6 | 152 | 22 | 249 | 3 | 367 | 10 | 485 | 17 | 662 | 11 | 825 | 24 | 986 | 10 | 2366 | 4 | 3835 | 30 | 4522 | 7 | 8239 | 27 |
| 23 | 6 | 153 | 22 | 251 | 2 | 368 | 9 | 487 | 17 | 663 | 11 | 827 | 19 | 991 | 8 | 2388 | 21 | 3836 | 30 | 4534 | 28 | 8263 | 15 |
| 25 | 19 | 154 | 22 | 252 | 26 | 369 | 10 | 488 | 2 | 665 | 17 | 833 | 22 | 998 | 29 | 2443 | 19 | 3837 | 30 | 4547 | 23 | 8363 | 2 |
| 26 | 9 | 155 | 9 | 254 | 20 | 372 | 11 | 491 | 9 | 669 | 5 | 837 | 7 | 999 | 29 | 2459 | 25 | 3852 | 1 | 4567 | 27 | 8423 | 3 |
| 28 | 20 | 156 | 9 | 257 | 14 | 373 | 14 | 493 | 28 | 671 | 5 | 842 | 6 | 1036 | 24 | 2507 | 3 | 3853 | 30 | 4615 | 18 | 8433 | 23 |
| 32 | 14 | 158 | 13 | 258 | 26 | 375 | 9 | 495 | 28 | 672 | 6 | 844 | 12 | 1064 | 13 | 2528 | 11 | 3859 | 26 | 4623 | 14 | 8476 | 27 |
| 35 | 27 | 160 | 4 | 259 | 12 | 377 | 8 | 496 | 28 | 673 | 26 | 847 | 8 | 1068 | 2 | 2542 | 18 | 3863 | 3 | 4627 | 5 | 8593 | 10 |
| 36 | 29 | 163 | 29 | 261 | 24 | 382 | 10 | 497 | 29 | 674 | 5 | 850 | 4 | 1095 | 17 | 2549 | 13 | 3871 | 30 | 4655 | 24 | 8607 | 28 |
| 37 | 16 | 164 | 22 | 262 | 13 | 383 | 10 | 503 | 24 | 676 | 26 | 851 | 4 | 1113 | 25 | 2557 | 10 | 3889 | 13 | 4673 | 25 | 8617 | 21 |
| 38 | 28 | 165 | 8 | 263 | 4 | 384 | 10 | 512 | 14 | 678 | 25 | 854 | 27 | 1165 | 2 | 2604 | 14 | 3894 | 10 | 4705 | 14 | 8623 | 23 |
| 40 | 28 | 167 | 20 | 264 | 26 | 385 | 18 | 517 | 12 | 681 | 27 | 861 | 25 | 1185 | 15 | 2613 | 28 | 3895 | 16 | 4773 | 3 | 8646 | 21 |
| 43 | 11 | 169 | 3 | 265 | 4 | 386 | 17 | 519 | 10 | 682 | 5 | 868 | 4 | 1213 | 5 | 2634 | 18 | 3897 | 1 | 4781 | 25 | 8745 | 23 |
| 46 | 9 | 170 | 3 | 269 | 24 | 387 | 16 | 521 | 15 | 685 | 21 | 869 | 20 | 1217 | 27 | 2659 | 13 | 3904 | 13 | 4816 | 24 | 8772 | 8 |
| 50 | 7 | 172 | 4 | 274 | 24 | 391 | 13 | 528 | 26 | 687 | 21 | 870 | 19 | 1218 | 7 | 2723 | 12 | 3908 | 23 | 4833 | 15 | 8802 | 9 |
| 52 | 12 | 174 | 12 | 275 | 3 | 392 | 14 | 531 | 26 | 688 | 25 | 875 | 14 | 1232 | 13 | 2738 | 28 | 3911 | 17 | 4840 | 26 | 8813 | 23 |
| 53 | 20 | 175 | 6 | 276 | 18 | 396 | 22 | 537 | 18 | 689 | 26 | 877 | 12 | 1246 | 11 | 2762 | 12 | 3913 | 3 | 4902 | 17 | 8966 | 18 |
| 55 | 20 | 177 | 1 | 278 | 17 | 397 | 25 | 540 | 5 | 694 | 6 | 883 | 6 | 1254 | 29 | 2815 | 13 | 3919 | 11 | 4935 | 15 | 9019 | 15 |
| 64 | 18 | 179 | 6 | 280 | 4 | 399 | 25 | 542 | 29 | 696 | 5 | 886 | 25 | 1274 | 29 | 2826 | 27 | 3922 | 24 | 4943 | 15 | 9026 | 23 |
| 65 | 16 | 180 | 4 | 282 | 23 | 401 | 21 | 545 | 28 | 697 | 5 | 887 | 4 | 1283 | 29 | 2827 | 26 | 3924 | 25 | 5024 | 23 | 9110 | 16 |
| 66 | 14 | 186 | 3 | 283 | 22 | 402 | 21 | 553 | 21 | 700 | 28 | 889 | 11 | 1296 | 20 | 2878 | 15 | 3927 | 5 | 5039 | 12 | 9176 | 20 |
| 68 | 18 | 188 | 2 | 285 | 7 | 403 | 21 | 555 | 21 | 701 | 29 | 890 | 10 | 1328 | 17 | 2899 | 4 | 3929 | 2 | 5096 | 18 | 9219 | 26 |
| 71 | 19 | 189 | 20 | 286 | 25 | 405 | 2 | 556 | 21 | 702 | 27 | 893 | 1 | 1336 | 7 | 2958 | 29 | 3933 | 19 | 5102 | 27 | 9299 | 28 |
| 74 | 15 | 190 | 28 | 288 | 4 | 406 | 6 | 561 | 23 | 707 | 21 | 895 | 9 | 1341 | 18 | 2984 | 19 | 3936 | 7 | 5117 | 15 | 9333 | 28 |
| 75 | 18 | 191 | 20 | 289 | 4 | 412 | 2 | 568 | 11 | 711 | 17 | 896 | 9 | 1348 | 5 | 2999 | 22 | 3939 | 2 | 5148 | 7 | 9414 | 3 |
| 76 | 17 | 192 | 20 | 291 | 13 | 414 | 3 | 571 | 14 | 714 | 20 | 903 | 19 | 1375 | 2 | 3033 | 18 | 3944 | 5 | 5226 | 17 | 9444 | 27 |
| 78 | 16 | 193 | 19 | 292 | 23 | 415 | 2 | 575 | 14 | 715 | 20 | 904 | 19 | 1384 | 3 | 3041 | 6 | 3945 | 22 | 5232 | 10 | 9478 | 3 |
| 79 | 8 | 194 | 19 | 296 | 24 | 416 | 2 | 578 | 1 | 716 | 11 | 909 | 10 | 1452 | 11 | 3072 | 7 | 3946 | 25 | 5250 | 1 | 9508 | 28 |
| 80 | 8 | 195 | 19 | 297 | 21 | 417 | 1 | 580 | 1 | 718 | 12 | 910 | 9 | 1471 | 19 | 3190 | 14 | 3947 | 6 | 5396 | 20 | 9517 | 21 |
| 81 | 10 | 196 | 18 | 299 | 3 | 421 | 7 | 582 | 22 | 722 | 3 | 912 | 12 | 1512 | 5 | 3207 | 29 | 3954 | 4 | 5460 | 16 | 9524 | 23 |
| 82 | 10 | 197 | 18 | 300 | 2 | 422 | 7 | 585 | 23 | 724 | 4 | 913 | 23 | 1560 | 13 | 3316 | 9 | 3964 | 3 | 5515 | 12 | 9528 | 13 |
| 86 | 15 | 198 | 7 | 302 | 21 | 423 | 6 | 586 | 8 | 727 | 27 | 914 | 23 | 1581 | 15 | 3429 | 8 | 3969 | 27 | 5520 | 24 | 9606 | 28 |
| 89 | 28 | 199 | 4 | 304 | 25 | 428 | 12 | 587 | 8 | 728 | 10 | 915 | 20 | 1622 | 16 | 3449 | 14 | 3973 | 6 | 5543 | 29 | 9637 | 22 |
| 93 | 29 | 202 | 13 | 307 | 7 | 429 | 13 | 588 | 9 | 730 | 10 | 916 | 20 | 1643 | 5 | 3454 | 29 | 3976 | 25 | 5618 | 28 | 9664 | 15 |
| 95 | 17 | 203 | 14 | 308 | 5 | 432 | 25 | 589 | 8 | 733 | 11 | 919 | 23 | 1647 | 7 | 3484 | 9 | 3977 | 5 | 5822 | 27 | 9679 | 16 |
| 96 | 8 | 205 | 22 | 309 | 16 | 435 | 17 | 591 | 2 | 736 | 18 | 920 | 23 | 1655 | 7 | 3499 | 23 | 3981 | 15 | 5883 | 15 | 9765 | 2 |
| 98 | 22 | 208 | 4 | 310 | 16 | 439 | 5 | 593 | 18 | 755 | 26 | 924 | 21 | 1683 | 9 | 3529 | 14 | 3998 | 24 | 5901 | 25 | 9818 | 1 |
| 100 | 21 | 209 | 26 | 311 | 16 | 440 | 14 | 595 | 17 | 758 | 11 | 925 | 20 | 1744 | 2 | 3549 | 30 | 4001 | 26 | 5958 | 13 | 9833 | 29 |
| 106 | 1 | 210 | 8 | 312 | 16 | 441 | 11 | 597 | 24 | 759 | 15 | 926 | 8 | 1762 | 13 | 3606 | 25 | 4015 | 5 | 6011 | 28 | 000 | 29 |
| 107 | 20 | 211 | 11 | 315 | 16 | 442 | 13 | 598 | 22 | 761 | 18 | 927 | 8 | 1823 | 17 | 3619 | 15 | 4021 | 1 | 6155 | 22 | | |
| 108 | 12 | 213 | 16 | 316 | 16 | 444 | 6 | 600 | 8 | 762 | 19 | 929 | 21 | 1826 | 8 | 3644 | 24 | 4022 | 25 | 6214 | 18 | | |
| 111 | 1 | 214 | 16 | 320 | 11 | 446 | 6 | 610 | 1 | 763 | 20 | 931 | 23 | 1846 | 26 | 3661 | 1 | 4026 | 24 | 6227 | 18 | | |
| 112 | 18 | 215 | 7 | 321 | 11 | 448 | 2 | 612 | 2 | 764 | 19 | 932 | 7 | 1889 | 27 | 3681 | 17 | 4029 | 7 | 6415 | 19 | | |
| 114 | 8 | 216 | 6 | 322 | 16 | 450 | 3 | 615 | 22 | 766 | 22 | 934 | 2 | 1932 | 16 | 3693 | 24 | 4032 | 28 | 6482 | 24 | | |
| 118 | 27 | 218 | 15 | 324 | 14 | 453 | 4 | 616 | 22 | 767 | 6 | 937 | 26 | 1969 | 26 | 3721 | 11 | 4035 | 27 | 6617 | 19 | | |
| 121 | 7 | 221 | 10 | 325 | 1 | 454 | 6 | 624 | 10 | 769 | 5 | 938 | 8 | 1992 | 15 | 3722 | 30 | 4057 | 22 | 6712 | 16 | | |
| 122 | 5 | 222 | 26 | 327 | 1 | 456 | 23 | 631 | 13 | 774 | 6 | 941 | 12 | 2006 | 6 | 3725 | 26 | 4061 | 22 | 6724 | 19 | | |

Please note: Small deviation in shade is possible for different thread types. We recommend matching thread to original fabric.
Bitte beachten: Geringfügige, technisch bedingte Farbabweichung pro Stärke möglich; für Abmusterungen empfiehlt sich der Einsatz von Originalware.
Attention: De légères variations de coloris dues aux procédés techniques de teinture peuvent être constatées au sein d'une même grosseur. Il est recommandé pour la création des collections de recourir aux fils initialement utilisés.
Attenzione: per cause tecniche si possono verificare lievi differenze di colore per ciascun titolo. Per l'abbinamento si consiglia di far riferimento al prodotto originale.
Por favor preste atención: Técnicamente es posible que existan insignificantes diferencias de tonalidad entre gruesos; le recomendamos el empleo de material original para la realización de muestrarios.

Mara 8/11/15

| 1 | 2 | 3 | 4 |
|---|---|---|---|
| • 800 | 591 | N/A | 131 |
| 4335 | 8363 | 450 | • 199 |
| • 111 | N/A | • 650 | 724 |
| 1 | N/A | N/A | 208 |
| N/A | 416 | N/A | • 160 |
| 3796 | N/A | 170 | N/A |
| 610 | N/A | • 186 | • 464 |
| N/A | • 968 | 4773 | 263 |
| 325 | N/A | 169 | N/A |
| N/A | 412 | N/A | 453 |
| 7 | N/A | N/A | N/A |
| 327 | 300 | N/A | • 868 |
| N/A | • 188 | 8423 | N/A |
| N/A | N/A | 249 | 850 |
| 3897 | N/A | 3791 | 265 |
| 580 | N/A | • 414 | 851 |
| N/A | 350 | 275 | • 124 |
| • 106 | 1068 | 802 | • 180 |
| 417 | 362 | 4147 | N/A |
| N/A | N/A | 9414 | 887 |
| N/A | • 448 | • 299 | N/A |
| 5250 | N/A | 3964 | N/A |
| 893 | • 934 | • 722 | N/A |
| N/A | N/A | N/A | N/A |

N/A These are Non-Stock colors and are not availible.

Mara 8/11/15

| 5 | 6 | 7 | 8 |
|---|---|---|---|
| • 815 | 767 | N/A | N/A |
| • 439 | 446 | 307 | N/A |
| 469 | 3947 | N/A | N/A |
| 122 | 672 | N/A | 8772 |
| N/A | N/A | 422 | N/A |
| 669 | 816 | 215 | 245 |
| 480 | 817 | N/A | N/A |
| 3944 | • 406 | 198 | 991 |
| 780 | • 694 | N/A | N/A |
| 674 | N/A | N/A | 96 |
| 4015 | • 23 | 5 | 210 |
| 671 | • 175 | N/A | N/A |
| 1643 | N/A | N/A | N/A |
| 308 | 883 | N/A | N/A |
| 3927 | 423 | 979 | 165 |
| N/A | N/A | N/A | N/A |
| • 682 | N/A | 1647 | N/A |
| 769 | • 454 | N/A | N/A |
| 3977 | • 139 | N/A | N/A |
| • 697 | N/A | N/A | N/A |
| N/A | • 444 | 982 | 473 |
| • 696 | 842 | 7996 | 80 |
| • 540 | N/A | N/A | N/A |
| 1512 | 179 | N/A | N/A |

N/A These are Non-Stock colors and are not availible.

| Mara 8/11/15 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|
| | N/A | • 369 | N/A | 718 |
| | N/A | N/A | N/A | N/A |
| | N/A | 3894 | N/A | 247 |
| | N/A | 519 | N/A | 912 |
| | N/A | N/A | 660 | 259 |
| | 351 | 367 | 663 | 517 |
| | N/A | 12 | • 659 | N/A |
| | • 155 | • 221 | N/A | N/A |
| | 364 | • 82 | N/A | 5039 |
| | 16 | 383 | N/A | N/A |
| | N/A | N/A | 320 | • 130 |
| | 365 | 382 | N/A | 5515 |
| | • 156 | N/A | 2528 | 174 |
| | N/A | 384 | N/A | • 230 |
| | 26 | 624 | 568 | N/A |
| | N/A | N/A | N/A | N/A |
| | • 46 | N/A | N/A | • 428 |
| | N/A | N/A | 211 | 955 |
| | N/A | N/A | 716 | N/A |
| | 226 | 890 | N/A | 2037 |
| | N/A | N/A | N/A | 2017 |
| | N/A | N/A | 321 | N/A |
| | N/A | 2557 | N/A | 52 |
| | 368 | 984 | N/A | 474 |

N/A These are Non-Stock colors and are not availible.

Mara 8/11/15

| 13 | 14 | 15 | 16 |
|---|---|---|---|
| N/A | N/A | N/A | 1932 |
| 262 | 6808 | N/A | N/A |
| 429 | • 810 | 4833 | 2246 |
| 2659 | 392 | N/A | 9679 |
| N/A | 373 | N/A | N/A |
| N/A | 3529 | 86 | N/A |
| 2549 | 257 | 759 | 315 |
| N/A | N/A | 9019 | N/A |
| 3889 | N/A | 4935 | 4401 |
| N/A | N/A | N/A | N/A |
| 3904 | N/A | 9664 | N/A |
| 2329 | 512 | N/A | 311 |
| 1232 | 575 | 8263 | 322 |
| N/A | N/A | 5883 | • 312 |
| N/A | N/A | N/A | • 214 |
| 158 | N/A | 655 | • 232 |
| 202 | N/A | 656 | 309 |
| 1560 | N/A | 2878 | • 310 |
| N/A | 3808 | 3981 | 65 |
| N/A | 32 | N/A | 6712 |
| N/A | N/A | 74 | N/A |
| 391 | 324 | N/A | 387 |
| N/A | 66 | N/A | N/A |
| 631 | N/A | 143 | 9110 |

N/A These are Non-Stock colors and are not availible.

Mara 8/11/15

| 17 | 18 | 19 | 20 |
|---|---|---|---|
| N/A | N/A | N/A | 189 |
| 1823 | 112 | • 331 | 254 |
| 13 | N/A | 193 | N/A |
| • 11 | 537 | N/A | 5396 |
| • 339 | 593 | 195 | N/A |
| 3681 | N/A | N/A | N/A |
| • 665 | 5096 | N/A | N/A |
| N/A | • 64 | 3933 | N/A |
| 95 | N/A | N/A | N/A |
| 487 | 75 | 2167 | N/A |
| N/A | 6227 | N/A | 53 |
| N/A | 4615 | 827 | N/A |
| N/A | N/A | N/A | N/A |
| 278 | 197 | 788 | 192 |
| N/A | N/A | 6415 | N/A |
| 386 | 761 | N/A | N/A |
| 3911 | N/A | 762 | N/A |
| N/A | N/A | N/A | N/A |
| 967 | 385 | • 483 | N/A |
| N/A | N/A | 764 | N/A |
| N/A | N/A | 904 | N/A |
| N/A | N/A | N/A | 107 |
| N/A | • 276 | 870 | N/A |
| 435 | 2086 | 223 | N/A |

N/A These are Non-Stock colors and are not availible.

Mara 8/11/15

| 21 | 22 | 23 | 24 |
|---|---|---|---|
| N/A | N/A | 3499 | 597 |
| N/A | N/A | 5024 | 148 |
| 100 | N/A | 292 | 6482 |
| 401 | N/A | 818 | N/A |
| N/A | 9637 | N/A | 821 |
| N/A | N/A | 4547 | N/A |
| 402 | 4057 | 4298 | N/A |
| N/A | N/A | N/A | 224 |
| 297 | 98 | N/A | N/A |
| N/A | 154 | N/A | 1036 |
| N/A | N/A | • 931 | N/A |
| N/A | 336 | N/A | 274 |
| 7616 | 833 | 639 | 4816 |
| N/A | • 396 | N/A | N/A |
| N/A | 237 | N/A | N/A |
| 8617 | N/A | 340 | N/A |
| 302 | 283 | N/A | 824 |
| 555 | N/A | N/A | N/A |
| N/A | 582 | 561 | N/A |
| 18 | N/A | 920 | 269 |
| 472 | N/A | 919 | 5520 |
| • 707 | N/A | N/A | N/A |
| 687 | 3945 | N/A | N/A |
| N/A | N/A | N/A | 503 |

N/A These are Non-Stock colors and are not availible.

Mara 8/11/15

| 25 | 26 | 27 | 28 |
|---|---|---|---|
| 3946 | 755 | 35 | N/A |
| N/A | 972 | • 727 | 4032 |
| N/A | N/A | 241 | N/A |
| N/A | N/A | • 132 | 190 |
| N/A | N/A | 1217 | 8102 |
| 5901 | 689 | 118 | N/A |
| N/A | N/A | 3969 | 4534 |
| 432 | 673 | 2826 | 5618 |
| 286 | 2827 | N/A | 493 |
| 397 | 9219 | 1889 | 9333 |
| N/A | N/A | 4567 | 495 |
| 886 | • 528 | N/A | • 38 |
| 3924 | 258 | 854 | 8607 |
| N/A | N/A | 9444 | 8 |
| N/A | 264 | 633 | 9508 |
| N/A | • 676 | 7568 | N/A |
| N/A | 3811 | N/A | • 634 |
| 304 | 252 | 635 | 545 |
| N/A | N/A | • 702 | N/A |
| N/A | 467 | 5822 | N/A |
| 678 | 209 | 636 | N/A |
| 861 | 3725 | 5102 | 2613 |
| N/A | 222 | 681 | • 40 |
| N/A | 937 | N/A | 496 |

N/A These are Non-Stock colors and are not availible.

Mara 8/11/15

**29**

| |
|---|
| 3454 |
| 497 |
| • 701 |
| 93 |
| N/A |
| 9833 |
| 141 |
| • 36 |
| 542 |
| 2958 |
| N/A |
| 799 |
| 7905 |
| 1254 |
| • 1274 |
| 998 |
| 2111 |
| 163 |
| • 999 |
| • 000 |
| N/A |

Mara 8/11/15

**30**

| |
|---|
| 3835 |
| 3836 |
| 3853 |
| 3871 |
| 3722 |
| 3837 |
| 3549 |

N/A These are Non-Stock colors and are not availible.

Gütermann

## Counts and shades available
## Lieferbare Stärken und Farben
## Grosseurs et coloris livrables
## Titoli e colori disponibili
## Gruesos y colores disponibles

| Micro Core Technology | Article<br>Artikel<br>Article<br>Articolo<br>Artículo | tex<br>tex<br>tex<br>tex<br>tex | Resultant count dtex<br>Endnummer dtex<br>No. en dtex<br>Numero dtex<br>N° final decitex | Available shades<br>Lieferbare Farben<br>Coloris livrables<br>Colori disponibile<br>Colores disponibles |
|---|---|---|---|---|
| 100 % Polyester<br>100 % Polyester<br>100 % Polyester<br>100 % Poliestere<br>100 % Poliéster | Mara 8<br>Mara 11<br>Mara 15 | 400<br>265<br>200 | 4000(3)<br>2650(4)<br>2000(3) | Marked with •<br>Mit • markiert<br>Marqués avec •<br>Marcati con •<br>Marcados con • |
| | Mara 30<br>Mara 50<br>Mara 70<br>Mara 80/Gütermann A 382<br>Mara 100/Gütermann A 302<br>Mara 120/Gütermann A 282 M<br>Mara 150/Gütermann A 192<br>Mara 220 | 100<br>60<br>40<br>40<br>30<br>25<br>20<br>13 | 1000(3)<br>600(3)<br>400(3)<br>400(2)<br>300(2)<br>250(2)<br>200(2)<br>130(1) | Available in all shades<br>In allen Farben lieferbar<br>Livrable dans tous les coloris<br>Disponibile in tutti i colori<br>Disponibles en todos los colores |

## Sewing thread numbers table
## Nähfaden-Nummern-Tabelle
## Table numérique des fils
## Tabella con numeri cucirini
## Tabla numérica de los hilos de coser

| Article | No./Tkt. | tex | Resultant count dtex | dtex x fold | Count cotton | Needle size |
|---|---|---|---|---|---|---|
| Artikel | No./Tkt. | tex | Endnummer dtex | dtex x fach | NeB Baumwolle | Nadeldicken |
| Article | No./Tkt. | tex | No. en dtex | dtex x nombre de bouts | No. anglais coton | Grosseurs d'aiguille |
| Articolo | No./Tkt. | tex | Numero dtex | dtex per capo | Titolo cotoniero | Grossezza d'ago |
| Artículo | No./Tkt. | tex | N° final decitex | decitex y cantidad de cabos | N° inglés algodon | Gruesos de aguja |
| Mara 8 | 8 | 400 | 4000(3) | 1333 x 3 | 5 | NM 200 - 250/25 - 27 |
| Mara 11 | 11 | 265 | 2650(4) | 663 x 4 | 7 | NM 160 - 180/23 - 24 |
| Mara 15 | 15 | 200 | 2000(3) | 667 x 3 | 9 | NM 140 - 160/22 - 23 |
| Mara 30 | 30 | 100 | 1000(3) | 333 x 3 | 18 | NM 110 - 130/18 - 21 |
| Mara 50 | 50 | 60 | 600(3) | 200 x 3 | 30 | NM 90 - 100/14 - 16 |
| Mara 70 | 70 | 40 | 400(3) | 133 x 3 | 40 | NM 90 - 100/14 - 16 |
| Mara 80/Gütermann A 382 | 80 | 40 | 400(2) | 200 x 2 | 50 | NM 70 - 90/10 - 14 |
| Mara 100/Gütermann A 302 | 100 | 30 | 300(2) | 150 x 2 | 60 | NM 70 - 80/10 - 12 |
| Mara 120/Gütermann A 282 M | 120 | 25 | 250(2) | 125 x 2 | 70 | NM 70 - 80/10 - 12 |
| Mara 150/Gütermann A 192 | 150 | 20 | 200(2) | 100 x 2 | 90 | NM 65 - 70/ 9 - 10 |
| Mara 220 | 220 | 13 | 130(1) | 130 x 1 | – | NM 60 - 65/ 8 - 9 |

## Lengths and quantities per box
## Lauflängen und Verpackungseinheiten
## Métrages et unités de conditionnement
## Metraggi e unità di imballaggio
## Metrajes y contenidos por caja

| Quantities per box<br>Verpackungseinheiten<br>Unités de conditionnement<br>Unità di imballaggio<br>Contenidos por caja | Box of 10<br>Karton à 10<br>Boîte de 10<br>Scatola da 10<br>Caja con 10 | Box of 10<br>Karton à 10<br>Boîte de 10<br>Scatola da 10<br>Caja con 10 | Box of 4<br>Karton à 4<br>Boîte de 4<br>Scatola da 4<br>Caja con 4 |
|---|---|---|---|
| Mara 8 | – | – | 800 m |
| Mara 11 | 110 m | – | 1.130 m |
| Mara 15 | – | – | 1.500 m |
| Mara 30 | 300 m | – | 3.000 m |
| Mara 50 | 500 m | – | 5.000 m |
| Mara 70 | 700 m | – | 7.000 m |
| Mara 80/Gütermann A 382 | 800 m | 5.000 m | 8.000 m* |
| Mara 100/Gütermann A 302 | 1.000 m | 5.000 m | 10.000 m* |
| Mara 120/Gütermann A 282 M | 1.000 m | 5.000 m | 10.000 m* |
| Mara 150/Gütermann A 192 | 1.000 m | 5.000 m | 15.000 m* |
| Mara 220 | – | 5.000 m | 10.000 m*/22.000 m* |

*Please note: special length is available on customer request
*Bitte beachten: Sonderlauflänge auf Kundenwunsch
*Attention: métrages spéciaux sur demande
*Attenzione: metraggio speciale su richiesta
*Importante: metrajes especiales a petición del cliente

Gütermann

## Product advantages
## Produktvorteile
## Avantages du produit
## Vantaggi del prodotto
## Ventajas del producto

| Article<br>Artikel<br>Article<br>Articolo<br>Artículo | | Make-up<br>Aufmachung<br>Présentation<br>Confezione<br>Presentación | Product advantages<br>Produktvorteile<br>Avantages du produit<br>Vantaggi del prodotto<br>Ventajas del producto |
|---|---|---|---|
| Mara 8 | | | • Excellent running properties<br>Optimale Automatensicherheit<br>Sécurité optimale sur les machines automatiques<br>Ottima cucibilità su unità automatiche<br>Seguridad óptima en autómatas de costura<br><br>• No hairiness, no residual deposits<br>Keine Haarigkeit, kein Faserflug, kein Stauben<br>Pas de poils, pas de peluches, pas de poussières<br>Non peloso, non lascia residui, non fa polvere<br>Aspecto no peludo, ningún residuo de fibras, nada de polvo<br><br>• Increased productivity due to less downtime spent cleaning<br>Höhere Produktivität durch Verringerung von Putzintervallen<br>Temps d'arrêt réduits grâce à la diminution des intervalles de nettoyage<br>Riduzione dei fermi macchina dovuti alla pulizia<br>Mayor productividad debido a la reducción de los intervalos de limpieza<br><br>• Uniform thread<br>Gleichmäßiger Fadenquerschnitt<br>Grande régularité du diamètre du fil<br>Molto regolare<br>Gran regularidad<br><br>• No spinning faults<br>Keine Spinnfehler<br>Pas d'erreurs de filature<br>Nessun difetto di filatura<br>Ningún fallo de hilatura<br><br>• High sheen<br>Hohe Brillianz<br>Extrême brillance<br>Molto brillante<br>Gran brillo |
| No./Tkt. | 8 | 800 m | |
| tex | 400 | | |
| dtex | 4000(3) | | |
| Mara 11 | | | |
| No./Tkt. | 11 | 110 m | |
| tex | 265 | 1.130 m | |
| dtex | 2650(4) | | |
| Mara 15 | | | |
| No./Tkt. | 15 | 1.500 m | |
| tex | 200 | | |
| dtex | 2000(3) | | |
| Mara 30 | | | |
| No./Tkt. | 30 | 300 m | |
| tex | 100 | 3.000 m | |
| dtex | 1000(3) | | |
| Mara 50 | | | |
| No./Tkt. | 50 | 500 m | |
| tex | 60 | 5.000 m | |
| dtex | 600(3) | | |
| Mara 70 | | | |
| No./Tkt. | 70 | 700 m | |
| tex | 40 | 7.000 m | |
| dtex | 400(3) | | |
| Mara 80/Gütermann A 382 | | | |
| No./Tkt. | 80 | 800 m | |
| tex | 40 | 5.000 m | |
| dtex | 400(2) | 8.000 m * | |
| Mara 100/Gütermann A 302 | | | |
| No./Tkt. | 100 | 1.000 m | |
| tex | 30 | 5.000 m | |
| dtex | 300(2) | 10.000 m * | |
| Mara 120/Gütermann A 282 M | | | |
| No./Tkt. | 120 | 1.000 m | |
| tex | 25 | 5.000 m | |
| dtex | 250(2) | 10.000 m * | |
| Mara 150/Gütermann A 192 | | | |
| No./Tkt. | 150 | 1.000 m | |
| tex | 20 | 5.000 m | |
| dtex | 200(2) | 15.000 m * | |
| Mara 220 | | | |
| No./Tkt. | 220 | 5.000 m | |
| tex | 13 | 10.000 m * | |
| dtex | 130(1) | 22.000 m * | |

*Please note: special length is available on customer request
*Bitte beachten: Sonderlauflänge auf Kundenwunsch
*Attention: métrages spéciaux sur demande
*Attenzione: metraggio speciale su richiesta
*Importante: metrajes especiales a petición del cliente

Gütermann

## Mara counts in 100 new shades
## Die Mara Stärken in 100 neuen Farben
## 100 nouveaux coloris de fils Mara
## La gamma Mara in 100 colori nuovi
## Los gruesos de Mara en 100 colores nuevos

| Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira | Colour Farbe Col. Col. Color | Strip Reihe Colon. Col. Tira |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 1 | 127 | 14 | 377 | 8 | 587 | 8 | 763 | 20 | 938 | 8 | 1384 | 3 | 2762 | 12 | 3859 | 26 | 4085 | 25 | 6155 | 22 | 9528 | 13 |
| 28 | 20 | 128 | 14 | 403 | 21 | 588 | 9 | 774 | 6 | 946 | 20 | 1581 | 15 | 3033 | 18 | 3895 | 16 | 4502 | 13 | 7347 | 20 | | |
| 43 | 11 | 129 | 14 | 440 | 14 | 643 | 27 | 825 | 24 | 985 | 11 | 1846 | 26 | 3190 | 14 | 3908 | 23 | 4519 | 13 | 8433 | 23 | | |
| 55 | 20 | 191 | 20 | 441 | 11 | 662 | 11 | 844 | 12 | 986 | 10 | 1969 | 26 | 3449 | 14 | 3919 | 11 | 4627 | 5 | 8476 | 27 | | |
| 79 | 8 | 282 | 23 | 442 | 13 | 688 | 25 | 877 | 12 | 1113 | 25 | 2006 | 6 | 3661 | 1 | 4021 | 1 | 4840 | 26 | 8646 | 21 | | |
| 81 | 10 | 296 | 24 | 463 | 15 | 700 | 28 | 910 | 9 | 1165 | 2 | 2355 | 9 | 3727 | 24 | 4026 | 24 | 4902 | 17 | 8745 | 23 | | |
| 121 | 7 | 316 | 16 | 491 | 9 | 711 | 17 | 915 | 20 | 1283 | 29 | 2459 | 25 | 3732 | 24 | 4035 | 27 | 4943 | 15 | 8802 | 9 | | |
| 125 | 13 | 328 | 20 | 521 | 15 | 733 | 11 | 926 | 8 | 1336 | 7 | 2507 | 3 | 3776 | 1 | 4061 | 22 | 5117 | 15 | 9026 | 23 | | |
| 126 | 12 | 352 | 28 | 571 | 14 | 736 | 18 | 927 | 8 | 1348 | 5 | 2634 | 18 | 3826 | 25 | 4079 | 10 | 5232 | 10 | 9524 | 23 | | |

Please note: Small deviation in shade is possible for different thread types. We recommend matching thread to original fabric.
Bitte beachten: Geringfügige, technisch bedingte Farbabweichung pro Stärke möglich; für Abmusterungen empfiehlt sich der Einsatz von Originalware.
Attention: De légères variations de coloris dues aux procédés techniques de teinture peuvent être constatées au sein d'une même grosseur. Il est recommandé pour la création des collections de recourir aux fils initialment utilisés.
Attenzione: per cause tecniche si possono verificare lievi differenze di colore per ciascun titolo. Per l'abbinamento si consiglia di far riferimento al prodotto originale.
Por favor preste atención: Técnicamente es posible que existan insignificantes diferencias de tonalidad entre gruesos; le recomendamos el empleo de material original para la realización de muestrarios.

## Technology and fastnesses
## Technologie und Echtheiten
## Technologie et solidités
## Tecnologia e solidità
## Tecnología y solideces

| Article / Artikel / Article / Articolo / Artículo | Mara 8 | Mara 11 | Mara 15 | Mara 30 | Mara 50 | Mara 70 | Mara 80 / Gütermann A 382 | Mara 100 / Gütermann A 302 | Mara 120 / Gütermann A 282 M | Mara 150 / Gütermann A 192 | Mara 220 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Breaking strength / Festigkeit / Résistance / Resistenza / Resistencia | > 15.500 cN | > 9.900 cN | > 8.320 cN | > 3.500 cN | > 2.350 cN | > 1.750 cN | > 1.750 cN | > 1.330 cN | > 1.150 cN | > 930 cN | > 400 cN |
| Elongation / Bruchdehnung / Allongement à la rupture / Allungamento / Elasticidad de rotura | > 14 % | > 14 % | > 14 % | > 16 % | > 11 % | > 17 % | > 17 % | > 16 % | > 16 % | > 16 % | > 12 % |
| Boiling shrinkage / Kochschrumpf / Rétrécissement à l'ébullition / Raggrinzimento alla bollitura / Retracción a la ebullición (30 min.) | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % |
| Thermal shrinkage / Thermoschrumpf / Rétrécissement aux variations thermiques / Raggrinzimento termico / Retracción térmica (160 °C / 30 min.) | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % | < 1 % |
| Wash fastness / Waschechtheit / Solidité au lavage / Solidità al lavaggio / Solidez al lavado (ISO 105 C03) | Grade 4 and better | | | | | | | | | | |
| Water fastness / Wasserechtheit / Solidité à l'eau / Solidità all'acqua / Solidez al agua (ISO 105 E01) | Grade 4 and better | | | | | | | | | | |
| Rub fastness / Reibechtheit / Solidité au frottement / Solidità allo sfregamento / Solidez al frotamiento (ISO 105 X12) | Grade 4 and better | | | | | | | | | | |
| Hypochlorite fastness / Hypochlorit-Bleichechtheit / Solidité au blanchiment à l'hypochlorite / Solidità al candeggio con ipoclorito / Solidez al blanqueo con hipoclorito (ISO 105 N01) | Grade 4 and better | | | | | | | | | | |
| Dry cleaning fastness / Trockenreinigungsechtheit / Solidité au nettoyage à sec / Solidità al lavaggio a secco / Solidez a la limpieza en seco (ISO 105 D01) | Grade 4 and better | | | | | | | | | | |
| Perspiration fastness / Schweißechtheit / Solidité à la transpiration / Solidità al sudore / Solidez a la acción del sudor (ISO 105 E04) | Grade 4 and better | | | | | | | | | | |
| Light fastness / Lichtechtheit / Solidité à la lumière / Solidità alla luce / Solidez a la luz (ISO 105 B02) | Grade 4 and better | | | | | | | | | | |
| Care instructions / Pflegehinweise / Consignes d'entretien / Istruzioni lavaggio / Indicaciones de conservación | 60°C △ P | | | | | | | | | | |

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