



BALANCE

NBC's strict quality control standards ensure that their mesh boasts an **ideal warp/weft balance**, contributing to a stronger, longer lasting screen.



DURABILITY

All NBC polyester mesh features threads with a high modulus rating, making for a whole range of meshes that are **exceptionally durable**.



PRECISION

NBC Alpha Series polyester mesh boasts **incredible dimensional accuracy**.






NBC MESH INSPECTION TAG

Every roll of NBC polyester mesh is supplied with an inspection tag. While flaws are kept to a minimum by careful quality control, any flaw found after thorough inspection is clearly marked to prevent it being stretched into your image area.

Thickness and mesh count are precisely controlled and documented on the tag—critical information for setting your production standards. In addition, NBC compensates for flaws by adding one half yard of mesh to the end of the roll free of charge for each flaw. (Any marked flaws within an 18" space are considered to be one flaw and compensated with a 1/2 yard of material.) Each flaw is clearly marked on the selvage edge with a red triangle on a blue pressure sensitive label.

SOLD LENGTH

EXTRA COMPENSATION FOR PARTIAL WEAVING DEFECT

| | | | | | | | |
|---|---------------------------|------------------------|---|------------------------------|----------------------|--|--|
| 品名 Item | α_L- SCREEN 140-030/355PW | | ROLL NUMBER | | 品名 Item |  | |
| 巾 Width | 155CM/ 61" | 製造番号 Roll No. | E1206A00110-03 | | 製造番号 Roll No. |  | |
| 原料 Material: | POLYESTER 100% | 規格値 Catalogue Value | カタメッシュ/インチ Warp Mesh/inch | ヨコメッシュ/インチ Weft Mesh/inch | 紗厚 Thickness (μm) | | |
| 純長 Length | キズ引長 Extra | 実測値 Actual Value | 355 | 355 | 45 | | |
| 32.5 Y | 1.0 Y | | 359 | 354 | 46 | 純長 Length | |
| | | | MADE BY NBC TECHNOLOGY | | |  | |
|  | | | 株式会社NBCメッシュテック / NBC Meshtec inc. 東京都日野市豊田2-50-3 / 2-50-3 Toyoda, Hino, Tokyo 191-0053, Japan TEL (042) 582-2411 FAX (042) 584-1374 http://www.nbc-jp.com | | | キズ引長 Extra |  |
| | | | | | | *1.0* | |

ACTUAL MESH COUNT PER INCH

ACTUAL MESH THICKNESS



Beta (β) Series polyester monofilament mesh is designed for standard screen printing applications such as textile, glass, and ceramic tile printing.

| MESH CODE | MESH COUNT | MESH COUNT | WEAVE TYPE | THREAD DIAMETER | MESH THICKNESS | | MESH OPENING | OPEN AREA | THEORETICAL INK VOLUME | | RECOMMENDED TENSION |
|---------------|------------|------------|------------|-----------------|----------------|---------|--------------|-----------|------------------------|--------|---------------------|
| | /in (±3%) | /cm (±3%) | | | 45-61" | 65"+ | | | 45-61" | 65"+ | |
| | | | | µm | µm | µm | µm | % | cm³/m² | cm³/m² | |
| EX355 -035 PW | 355 | 140 | 1:1 PW | 35 | 53±2µm | 54±3µm | 32 | 19 | 10.3 | 10.5 | 27 |
| EX330 -035 PW | 330 | 130 | 1:1 PW | 35 | 53±2µm | 54±3µm | 38 | 24 | 12.9 | 13.2 | 26 |
| EX305 -035 PW | 305 | 120 | 1:1 PW | 35 | 53±2µm | 54±3µm | 45 | 29 | 14.9 | 15.2 | 25 |
| EX305 -040 PW | 300 | 118 | 1:1 PW | 40 | 62±2µm | 63±3µm | 37 | 19 | 11.8 | 12 | 30 |
| EX280 -035 PW | 280 | 110 | 1:1 PW | 35 | 53±2µm | 54±3µm | 53 | 34 | 17.4 | 17.8 | 22 |
| EX270 -040 PW | 270 | 106 | 1:1 PW | 40 | 60±2µm | 61±3µm | 49 | 27 | 16.3 | 16.6 | 27 |
| EX255 -040 PW | 255 | 100 | 1:1 PW | 40 | 60±2µm | 61±3µm | 56 | 32 | 19 | 19.3 | 25 |
| EX230 -040 PW | 230 | 90 | 1:1 PW | 40 | 60±2µm | 61±3µm | 67 | 37 | 22.1 | 22.5 | 23 |
| EX230 -048 PW | 225 | 88 | 1:1 PW | 48 | 75±3µm | 76±3µm | 58 | 26 | 19.8 | 20.1 | 30 |
| EX200 -055 PW | 200 | 79 | 1:1 PW | 55 | 88±4µm | 88±4µm | 69 | 30 | 26 | 26 | 26 |
| EX200 -048 PW | 200 | 79 | 1:1 PW | 48 | 76±3µm | 80±4µm | 75 | 35 | 26.5 | 27.9 | 27 |
| EX180 -055 PW | 180 | 71 | 1:1 PW | 55 | 88±4µm | 88±4µm | 85 | 36 | 31.9 | 31.9 | 26 |
| EX180 -048 PW | 180 | 71 | 1:1 PW | 48 | 76±3µm | 80±4µm | 91 | 42 | 31.6 | 33.3 | 25 |
| EX160 -063 PW | 160 | 63 | 1:1 PW | 63 | 105±5µm | 105±5µm | 93 | 34 | 36 | 36 | 26 |
| EX160 -048 PW | 160 | 63 | 1:1 PW | 48 | 80±4µm | 80±4µm | 110 | 48 | 38.4 | 38.4 | 22 |
| EX150 -055 PW | 150 | 59 | 1:1 PW | 55 | 88±4µm | 88±4µm | 114 | 45 | 39.9 | 39.9 | 27 |
| EX150 -048 PW | 150 | 59 | 1:1 PW | 48 | 77±3µm | 79±4µm | 120 | 50 | 38.7 | 39.7 | 18 |
| EX140 -063 PW | 140 | 55 | 1:1 PW | 63 | 105±5µm | 105±5µm | 116 | 41 | 43.2 | 43.2 | 24 |
| EX135 -055 PW | 135 | 53 | 1:1 PW | 55 | 95±5µm | 95±5µm | 133 | 50 | 47.5 | 47.5 | 21 |
| EX135 -048 PW | 135 | 53 | 1:1 PW | 48 | 79±4µm | 79±4µm | 139 | 55 | 43.1 | 43.1 | 18 |
| EX125 -071 PW | 125 | 49 | 1:1 PW | 71 | 116±6µm | 116±6µm | 130 | 41 | 47.6 | 47.6 | 25 |
| EX120 -048 PW | 120 | 47 | 1:1 PW | 48 | 80±4µm | 80±4µm | 163 | 59 | 47.4 | 47.4 | 17 |
| EX110 -080 PW | 110 | 43 | 1:1 PW | 80 | 132±7µm | 132±7µm | 150 | 42 | 55.7 | 55.7 | 26 |
| EX100 -071 PW | 100 | 39 | 1:1 PW | 71 | 122±6µm | 122±6µm | 182 | 51 | 62.6 | 62.6 | 27 |
| EX 80 -071 PW | 80 | 31 | 1:1 PW | 71 | 125±6µm | 125±6µm | 246 | 60 | 75 | 75 | 26 |

Mesh Count: Number of threads per inch or centimeter

Weave Type: Plain Weave (PW) or Twill Weave (TW)

Thread Diameter: The diameter of each thread before weaving

Mesh Thickness: The average thickness of the woven mesh

Mesh Opening: The distance between adjacent threads

Open Area: The ratio (%) of the open area to the thread area within a woven mesh

Theoretical Ink Volume: The amount of ink the mesh should be able to hold/transfer, given as the ratio (%) of open area × mesh thickness to the thread area

Recommended Tension: Each screen technician will have to determine the best tension level to use for each unique printing situation. Tension level is determined by frame size, profile, and the condition of frames. Mechanical stretching equipment is generally capable of reaching *Standard* or *Advanced* levels, depending on the skill and experience of the stretching operator. *Expert* levels can usually be achieved with "state-of-the-art" pneumatic stretching clamps. Excellent printing results can be achieved at all tension levels if other parameters are correct.